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1871/72

ANNUAL REPORT

AND

TRANSACTIONS

OF THE

PLYMOUTH INSTITUTION

AND

Debon and Cornwall

NATURAL HISTORY SOCIETY.

VOLUME IV. PART III.

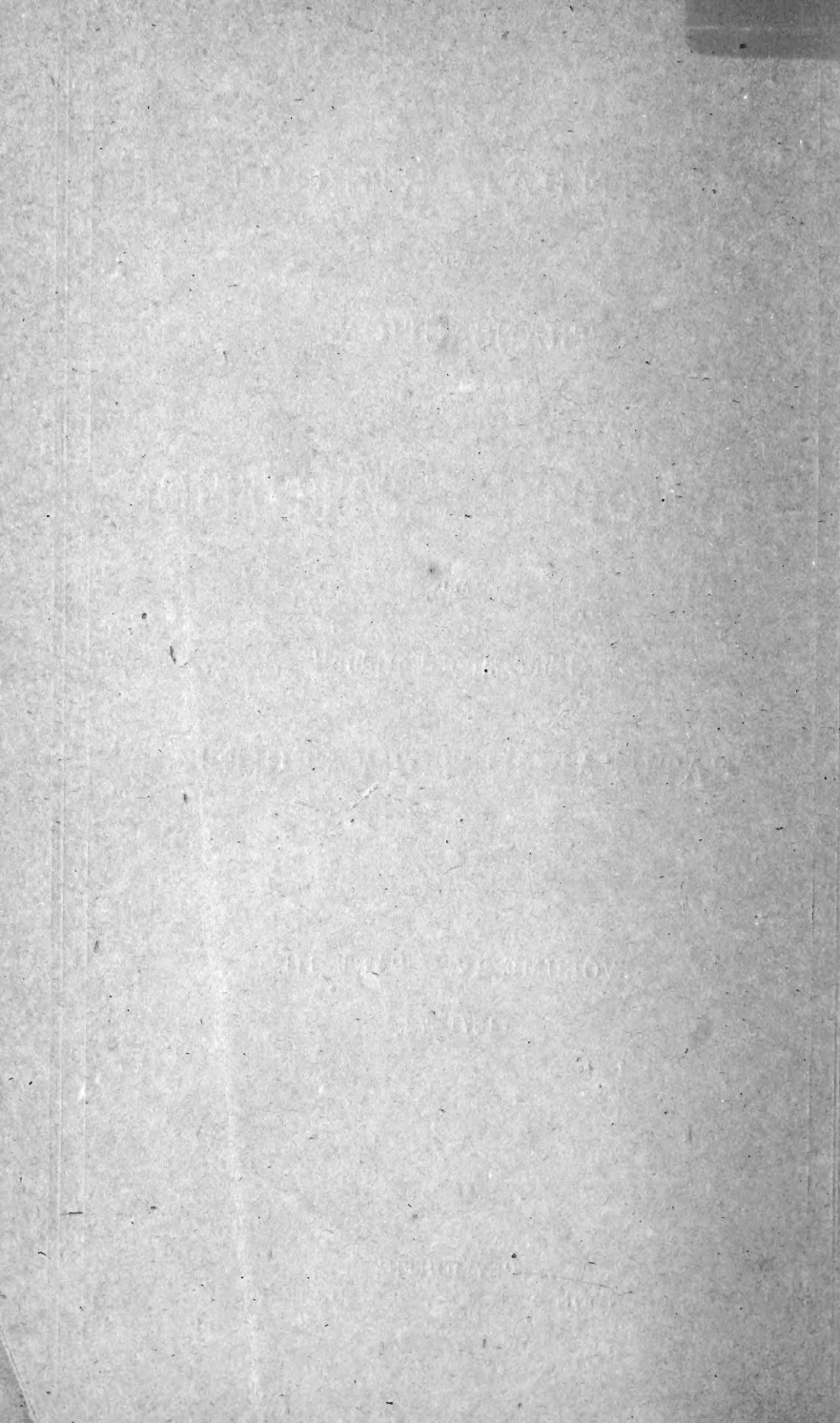
1871-72.

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ANNUAL REPORT
OF THE
PLYMOUTH INSTITUTION
AND
Devon and Cornwall Natural History Society.

1871-72.

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 Bayly, Richard, Brunswick Terrace
 Bayly, Robert, Bedford Terrace

Bayly, T. S., Harson Villa, Stone-
 house

Bennett, W., M.A., Princess Square

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Elliott, S., Trafalgar House	Maitland, A. G., Western College
Weekes, Alfred, Windsor Terrace	



SECRETARIES' REPORT

1871-72.

THE Secretaries present to the Society the following Report of the proceedings of the Session.

The papers read were—

Oct. 12.	Pre-historic Dartmoor	Mr. C. SPENCE BATE, F.R.S.
„ 19.	An Experiment in Translation . .	Rev. S. THELWALL, B.A.
„ 26.	The Perambulation of Dartmoor (1240.)	Mr. C. SPENCE BATE, F.R.S.
Nov. 2.	Miracles, from a Philosophical point of view	Rev. J. M. CHARLTON, M.A.
„ 9.	The Dirt we eat	Mr. WILLIAM SQUARE, JUN.
„ 16.	Literature from the Eighth to the Twelfth Centuries	Mr. ALFRED ROOKER.
„ 23.	Venantius Fortunatus	Mr. J. SHELLY.
„ 30.	Pauperism	Mr. A. P. PROWSE.
Dec. 7.	Female Education	Rev. J. METCALFE, M.A.
„ 14.	Economic Value	Mr. W. ADAMS.
Jan. 18.	The Condition of our National Uni- versities, with some Suggestions for their Reform	Mr. J. D. LEWIS, M.P.
„ 25.	Fever Hospitals, with special relation to the present Epidemic in the Three Towns	Mr. CHRIS. BULTEEL, F.R.C.S.
Feb. 1.	Plato's Theory of Education . .	Mr. W. MORRISON, M.P.
„ 8.	The Life and Genius of Tasso . .	Rev. J. M. CHARLTON, M.A.
„ 15.	The Vision of Piers Plowman . .	Mr. D. SLATER, M.A.
„ 22.	Will and Law	Rev. J. E. RISK, M.A.
„ 29.	British Storms	Mr. T. W. COFFIN.
Mar. 7.	Public Health	Mr. G. JACKSON, M.R.C.S.
„ 14.	Natural History—Notes from our Antipodes	Capt. BRIGGS.
„ 21.	On Iron	Mr. W. BEER.
„ 28.	The Pre-historic Remains of Brittany.	Capt. OLIVER, R.A.

The average attendance of the past year has been 65, not including the evening of the Conversazione.

Eight members and eight associates have joined the Society, the

numbers at present being 58 members, 64 associates, and three junior associates.

At the anniversary meeting papers were read by Mr. J. Shelly on "Mr. Ellis's System of Glossic Writing," and by Mr. George Jackson on "Epidemics."

The *Conversazione* was very successful. The hall was gracefully decorated with paintings and water colours, under the superintendence of the Curator of the Fine Arts, who contributed some pleasing landscapes from his own studio; and a careful selection of music was performed by some of the members.

In August last the British Medical Association held their annual meeting in this town, and some of the members accepted the invitation of this Society, and accompanied us on an excursion on the 12th of the month. Our party, including many ladies, started from Tavistock, and proceeded to Two Bridges, halting near Mervivale Bridge, on the Walkham river, to afford an opportunity of inspecting the famous old British village situate near the spot. From Two Bridges many walked to Wistman's Wood, the party reassembling at Prince Town, where some visited the convict establishment. On leaving Prince Town the road was taken to Lee Moor, where we were very kindly entertained by Mr. Martin, to whom the thanks of the Society are due for his generous hospitality. We then returned by way of Plympton, having enjoyed beautiful weather, which completed the bright pleasure of a day likely to be remembered with satisfaction by all present.

The Librarian reports as follows:

"The Curator of the Library in presenting his Report to the members of the Plymouth Institution has to state that during the past year considerable improvement has been effected in the Library by the fixing of a stove, in accordance with a suggestion in his last Report, and the putting up of some new book-shelves, similar in pattern to others in the room, in the space until very recently occupied by two old-fashioned and inconvenient cases.

"As regards the books many volumes have been bound up, mostly belonging either to sets of serials subscribed for by the Society, or to the 'Transactions' of such learned societies as exchange their own Reports for those of the Institution.

"The British Association have kindly forwarded their Report for 1870; the Zoological Society four parts of their 'Proceedings;'

the Natural History Society of Northumberland and Durham, Part i. of vol. iv. of their interesting 'Transactions;' the Geological Society of London the continuation of their 'Journal;' the Devonshire Association, Part 2 of vol. iv. of their 'Transactions;' the Royal Cornwall Polytechnic Society, their thirty-eighth Annual Report; the Royal Geological Society of Ireland, and the Royal Dublin Society, portions of their respective 'Journals;' the American Smithsonian Institution, their vol. for 1869; the Literary and Philosophical Society of Liverpool, Parts 23 and 24 of their 'Transactions,' and the kindred Manchester Society portions of their 'Proceedings.' From the Royal University of Christiana have been forwarded scientific papers.

"They are under great obligations to the Royal Institution of Cornwall, for not only have they received a continuation of the interesting journal issued by this Society, but also fifty-three back reports in answer to an application made to the Secretary by the Librarian.

"Two corresponding members, Dr. Bannister and Mr. W. J. Henwood, have acknowledged their connection with the Society; Dr. Bannister by forwarding the concluding portion of his 'Glossary of Cornish Names;' Mr. Henwood by sending his recently published elaborate work in two vols., on 'Metalliferous Deposits and Subterranean Temperature,' together with a copy of the address he delivered at the opening meeting of the Royal Cornwall Institution.

"Dr. Weymouth, whom the members of the Plymouth Institution still wish to consider one of their number, has shown himself mindful of old friends by forwarding them a pamphlet on 'Euphuism;' and they are indebted to Dr. Merrifield for a copy of his pamphlet on the 'Meteorology and Climate of Plymouth.' Amongst their lecturing members they have to thank Mr. Spence Bate for the British Association Report for 1868, which was wanting in their set; also for a 'Report on the Pre-historic Antiquities of Dartmoor.' To Captain Oliver, R.A., they are indebted for a copy of each of the following works by himself: 'Madagascar and the Malagasy;' 'The Hovas and other Characteristic Tribes of Madagascar;' 'On the Pre-historic Remains in Brittany;' 'Report on Present State and Condition of Pre-historic Remains in the Channel Islands (1870);' 'Megalithic Structures of the Channel Islands. To Mr. Worth, the historiographer of their town, for 'Priestly and Adams's Works

on Electricity.' The Librarian has given the current numbers of the 'Journal of Botany.'

"There have been purchased several volumes of the 'Philologist,' rendering the set complete; the 'Ibis,' vol. iii. (1861); the new edition of Yarrell's 'Birds,' by Newton, 3 Nos., all yet issued; the 'Zoological Record' for 1870; 'Monograph of the Gymnoblasic or Tubularian Hydroids' (Royal Society's vol.); 'Owen's Odontology,' 2 vols.; 'Collins's Handbook to the Mineralogy of Cornwall and Devon;' 'Figuier's Primitive Man;' the 'Entomological Magazine,' 5 vols.; 'Couch's History of Polperro;' the 'Journal of Botany,' vols. i. and vii., completing the set; 'Leighton's Lichen Flora of Great Britain;' 'Worth's History of Plymouth;' 'Worth's History of Devonport;' and two parts of the 'Journal of the Geological Society of Ireland.'

"The British Association Report for 1852 has been received in exchange for three Reports of other years of which the Society possessed duplicate copies, and as the volume for 1844 has been recovered from a second-hand bookseller, the entire set of these Reports is now in the Library."

(Signed)

FREDERIC E. ANTHONY, }
W. ADAMS, } HON. SECS.

April 30th, 1872.

TREASURERS' REPORT,

1871-72.

THE amount received during the past year for Subscriptions is rather less than last year, and there has been a considerable diminution in the sums received for rental of the Hall. The expenses appear to have been heavy, but several permanent additions to the Building have been made.

(Signed)

ALBERT P. PROWSE, }
J. BROOKING ROWE, } TREASURERS.

Athenæum, 8th April, 1872.

FO

The Plymouth Institution and Devon and Cornwall Natural History Society,

For the Year ending 31st March, 1872.

	£	s.	d.
To Rates, Taxes, and Insurance	.	14	8 6
Salaries, Commission, &c.	.	19	12 0
Repairs, including expenses incurred by the Ven- tilation Committee	.	30	8 10
Additions to Furniture and Building	.	22	1 6
Lighting and Warming	.	16	5 8
Interest	.	6	0 0
Incidentals	.	3	7 5
Printing	.	4	12 0
Conversazione	.	8	4 0
Museum	.	19	8 0
Library and Binding	.	45	13 0
	£190	0	11

ALBERT P. PROWE, } *Treasurers.*
J. BROOKING ROWE, }

April 4th, 1872.

Examined and found correct.

SAML. CATER,
WILLIAM BEER, } *Auditors.*

By Balance due from Treasurers	£	s.	d.
Annual Subscriptions of Members and Associates	35	15	0 $\frac{1}{2}$
at £1 ls.	.	.	.
Annual Subscriptions of Junior Associates at 10/6	2	12	6
Rent of Hall	.	.	.
Admissions	.	.	.
Sale of Catalogues, Surplus Books, Waste Paper,	.	.	.
&c.	.	.	.
Balance due to Treasurers	0	9	6 $\frac{3}{4}$

AN ABSTRACT from the METEOROLOGICAL REGISTER, from 1st January, 1871, to 31st December, 1871, kept at the Navigation School, Gascoyne Place, Plymouth (Lat. $50^{\circ} 22\frac{1}{2}'$ N., Long. $4^{\circ} 7\frac{1}{4}'$ W.), by JOHN MERRIFIELD, PH.D. F.R.A.S.

MONTH.	BAROMETER REDUCED TO MEAN SEA LEVEL AT 32° FAH.			TEMPERATURE.			HYGROMETER.				RAINFALL.		DIRECTION OF WIND AT 8 A.M.				
	Average Barometer	Maximum for Month.	Minimum for Month.	Average Maximum in shade.	Average Minimum.	Average temperature	Average dry bulb.	Average wet bulb.	Average dew point.	Average humidity—Sa- turation, 100.	Number of days on which rain fell.	Quantity for the month in inches.	From N. to E.	From E. to S.	From S. to W.	From W. to N.	Calm.
1871.																	
January .	29.820	30.282	28.853	42.81	33.11	37.96	36.87	36.10	35.00	93	20	3.74	6	4	10	9	2
February .	30.037	30.484	29.342	50.20	41.72	45.96	44.91	44.09	43.14	93	19	2.52	2	8	13	5	0
March .	30.050	30.507	29.497	53.98	41.13	47.56	45.65	43.71	41.48	85	10	1.31	4	10	10	5	2
April .	29.835	30.161	29.155	57.28	45.45	51.37	49.93	48.48	46.96	90	16	4.76	3	5	14	7	1
May .	30.097	30.349	29.804	63.84	47.29	55.56	54.50	50.84	47.29	77	2	.11	12	6	2	11	0
June .	29.965	30.304	29.551	65.33	51.68	58.51	57.38	54.75	52.36	84	13	1.81	6	5	13	8	2
July .	29.888	30.240	29.524	66.89	55.71	61.30	59.95	58.18	56.62	90	20	6.29	0	3	13	14	1
August .	30.030	30.494	29.327	71.39	58.24	64.81	63.07	61.15	59.35	87	10	1.99	6	4	7	7	7
September .	29.869	30.214	28.823	63.90	51.85	57.88	56.27	54.48	52.99	89	15	5.42	13	6	3	3	5
October .	29.930	30.429	29.350	58.65	48.00	53.32	52.29	51.15	50.00	89	19	3.63	4	11	9	4	3
November .	29.975	30.381	29.558	48.97	38.67	43.82	41.63	40.79	39.75	93	10	1.01	11	5	3	7	4
December .	30.138	30.564	29.195	45.80	35.10	40.45	38.63	38.02	37.20	95	13	3.28	7	5	10	4	5
Average for 1871	29.970	30.367	29.332	57.42	45.66	51.54	50.09	48.48	46.8	88.7	167	35.87	74	72	103	84	32
Average for 7 Years . .	29.955	30.401	29.340	59.64	44.76	52.20	51.97	49.52	47.02	83.3	—	—	—	—	—	—	—

The observations are all taken at Eight a.m. The Rain Gauge is by Casella, and eight inches in diameter. Its top is 26 feet 6 inches above the ground, and 100 feet above the mean level of the sea. A rainy day is one in which not less than one-hundredth of an inch falls. The Instruments have all been supplied by the Meteorological Committee of the Royal Society, compared at Kew, and the index error supplied to each.



DARTMOOR.

A Map of the Perambulation of the "FORESTE DE DARTMOR." 24. Henry III, 1240, compared with the recent Ordnance Survey.

BY C. SPENCE BATE, F.R.S., &c.

The Charter published in "Rishon's Survey of Devon" 1240.	The Charter published in the "Appendix to 'Rowe's Dartmoor'" 1240.	An Unpublished Copy MS. 1210.	On back of Map, im- printed, in possession of Thomas Atkins, Esq.	Various Readings extracted from Notes in Rowe and elsewhere.	The Names given in the Charter of 1609.	And as in the Ordnance Survey.
Hoga de Cosdowne	Hoga de Cosdowne	Hoga de Cosdowne	Hoga de Cosdon	Hoga de Costdowne	Cosdon-Cosson	Cosdon Beacon
Hounteret	Parva Houndetorre	Hoga Houndetor	Hountorre	-----	Little Houndetorr	Houndor
Thurleston	Thurleston	Thurslestone	Thurlestone	-----	Waterdонтorr	Thirlstone
Wotesbroke, Lakefoot	Wotesbroke-lakesfote	Wotesbroke-lakesfote	Wotesbroke-lake	-----	Whoodelake	-----
Teigne (River)	Tyng	Teigne	Tenge	-----	Teynge	Teigne
Hangeston	Heighestone	Heighestone	Heighstone	Hengeston	Hingeston-Highstone	-----
Gotestone	Langstone	Langtone	Langstone	Yessetone, Yeston, Geston	Hethstone	Longston Rock Pillar
(Turbaria) Aberhene	Alberysheved	Alberyskede	Alberyskede	Abereshved	Turfchill	-----
Wallabroke	Wallebroke	Wallebroke	Wellebroke	-----	-----	-----
Surt Regis	Furnu Regis	Furnu Regis	Furnu Regis	-----	King's oven	King's Oven
Walbroke Head	Wallebroke-shede	Wallebroke-shede	Caput Wallabroke	-----	Wallebrookehead	Wallowbrook
Darta (River)	Derta	Darta	Derte	-----	Dart	Dart
Abbot Foot	-----	-----	-----	-----	-----	-----
Otbroke	Okebroke	Okebroke	Okysbroke	Okbroke	Wobrookefoote	Wobrook
Ledceroke	Dryeworke	Dryawork	Drywork	-----	Drylake or Drywoke	-----
Dryfeildforde	Dryfeldford	Dryfeldford	Dryfeldford	-----	Crefeild-ford-Dryfeild-ford	-----
Batshill	Batryshill	Catteshill	Catteshill	Cattyshyll. Gnattishull	Knattleburroughe	-----
Wester Wellabroke	Wester Wellabroke	Weste Wellebroke or	-----	-----	Wester Wellebrooke	Knattleburrow
Avon (River)	Aven	Avena [Wellebroke	Avena	-----	Owne, -Aven	Avon
-----	-----	-----	-----	-----	-----	-----
Easter Wellabroke	Ester Whyteburghe	Yesterwhyteburghe	Westerwhiteburg	-----	Easter Whitaburrowe	E Whittaburrow
Redlake	Redelake	Redelake	Redelake	Rodelake	Redlake	Red Lake
----- (River)	Erme	-----	Erme	-----	-----	Erme
Grinsgrove	Grymsgrove	Grymesgreve	Gryms greve	-----	Arme Headd (?)	-----
Plym (River)	Plym	-----	Plym	-----	Plym	Plym
Ellisborough	Elysburgh	Elysburgh	Elysburg	-----	Elisboronghe	Eylesburrow
Silward Crux	Sywardi Crux	Crux Sywardi	Crux Siward	-----	Seaward's Crosse	Nuns-cross
Efforther	Yfother	Ysforther	... oughfoder	-----	Hisworthie	-----
Meavy (River)	Meavy	Meavy	Meavy	-----	Meavy	Meavy
Elforther	Ysforther	Ysforther	... glysforther	-----	Hisworthie	North Hessary Tor
-----	Mystor	-----	Mystorre	-----	Mistorrepan	Mist Tor
Walkham	-----	Walkam	Caput Walkham	-----	Dedlakehead	Walkham
Mewboron	Mewyburghe	Mewyburghe	Mewyburgh	-----	Mewborough	-----
Willingesse	Lullingsfote	Lullingsfote	Lullings-sete	Hullingssete	Luntesborowe	Lints Tor, Limes Borough
Tavy (River)	Tavy	Tavy	Caput Tavy	Tavy	Tavy	Tavy
Rakernbroke Foot	Rakernbrookysfote	Bakernbrookysfote	Rakkernbrokeshede	-----	Rattlebrooke foote	Rattlebrook
West Soll	Westsolle	West Solle	Westsolle	-----	-----	-----
Grenestor	Ernestorre	Ernestorre	Ernestorre	-----	Steinegtorr	Stengator
-----	-----	-----	-----	-----	-----	-----
St. Mich. Halgestock	Sancte Michaelis di Halgestoke	Halstock.	-----	-----	Langaford-Sandyford	-----
-----	-----	-----	-----	-----	Chapple of Halstock	Halstock

A Map of the Perambury.

The Charter published in
"Risdon's Survey of
Devon" 1240.

The Charter published in the
Appendix to "Rowe's
Dartmoor." 1240.

And as in the Ordnance
Survey.

Hoga de Cosdowne
Hounteret
Thurleston
Wotesbroke, Lakefoot
Teigne (River)
Hangeston
Gotestone
(Turbaria) Aberhene
Wallabroke
Surt Regis
Walbroke Head
Darta (River)
Abbot Foot
Otbroke
Ledeereoke
Drifeildforde
Batshill
Wester Wellabroke
Avon (River)
Easter Wellabroke
Redlake
Grimsgrrove
Plym (River)
Ellisborough
Silward Crux
Efforther
Meavy (River)
Efforther
Walkham
Mewboron
Willingesse
Tavy (River)
Rahernbroke Foot
West Soll
Grenestor
St. Mich. Hallgestock

Hoga de Cosdowne
Parva Hundetorre
Thurleston
Wotesbroke lakesfote
Tyng
Heighestone
Langestone
Alberysheved
Wallebroke
Furnum Regis
Wallebroke shede
Derta
Okebroke
Dryeworke
Dryfeldford
Battysull
Wester Wellabroke
Aven
Ester Whyteburghe
Redelake
Erme
Grymsgrove
Plym
Elysburghe
Sywardi Crux
Yfother
Meavy
Ysfother
Mystor
Mewyburghe
Lullingesfote
Tavy
Rakernesbrokysfote
Westsolle
Ernestorre
Sancte Michaelis di
Halgestoke

Cosdon Beacon
Houndtor
Thirlstone
Teigne
Longston Rock Pillar
King's Oven
Wallowbrook
Dart
Wobrook
Knattleburrow
Avon
E Whittaburrow
Red Lake
Erme
Plym
Eylesburrow
Nuns-cross
Meavy
North Hessary Tor
Mist Tor
Walkham
Lints Tor, Limes Borough
Tavy
Rattlebrook
Stengator
Halstock

THE PLYMOUTH INSTITUTION.

SESSION 1871-2.

PRE-HISTORIC DARTMOOR.

ABSTRACT OF PAPER BY MR. SPENCE BATE, F.R.S.

(Read October 12th, 1871.)

STARTING from the admitted principle that the names of rivers and of mountains date back to the time of the earliest inhabitants of a country, the lecturer proceeded to apply it by tracing the names of the Dartmoor streams and their feeders, with those of some of the chief heights, to their least corrupt forms. He referred particularly to the names of rivulets in which Wal or Walla forms a part; and to the other compound names into the composition of which Bal enters. These he identified as referring to ancient workings for tin, and as indicating by their frequent occurrences the extent to which tin was raised on the Moor in pre-historic times. The next stage in the argument was a reference to a number of names still extant in the heart of the Moor, as bearing distinct traces of Scandinavian origin. The cognomens of most of the old Vikings were thus preserved. Mr. Bate's general conclusion was, that a horde of Northmen had landed on the Dart; had found their way up that river; and had settled on the Moor, where they worked the mines. He believed that this settlement took place in the early bronze period. Incidentally Mr. Bate advanced the suggestion that Mount Batten in early times answered the description of the Iktis of Diodorus Siculus far more than St. Michael's Mount. The Celtic cemetery which had been discovered hard by it shewed that there must have been a considerable population in the immediate neighbourhood. During the course of the lecture Mr. Bate

exhibited a fac-simile of a map of an ancient perambulation of the Moor, dated 1240 (Henry III.), which he had taken from the original in the possession of Mr. Atkins, of Newton Bushel, by that gentleman's kind permission.

AN EXPERIMENT IN TRANSLATION.

ABSTRACT OF REV. S. THELWALL'S PAPER.

(Communicated by REV. F. E. ANTHONY. Read October 19th, 1871.)

THIS paper was not originally written for the above Institution, but was read before the members at the suggestion of the Rev. F. E. Anthony, M.A., London, one of the Secretaries. The question with which the paper started was this: Need a literal translation be bald and graceless? The answer to this question involved another: What are the constituent elements of literal translation? In endeavouring to reply to this latter enquiry, the lecturer pointed out that to "translate" is to "transfer" or "carry over" the sense and spirit of an author writing in one language into another language. To do this "literally" is, in strictness, to take care that no "letter" even of the author be overlooked. Hence it would seem to follow that a "literal translation," so far from being what is so commonly understood by this title, a spiritless, slovenly production, of which any real scholar would be ashamed, is in truth a production which can only be the offspring of ripe scholarship, joined to some degree of taste and skill. In carrying out these views, the author had occasion to go, with some degree of minuteness, into the difficulties which are involved in translation; and while carefully guarding himself against sanctioning the details of what is called the Hamiltonian system, he pleaded that that system appears to contain an element of truth, and therefore of utility. That element is the principle that every word contains some fundamental idea, which can only be found in some one corresponding word in the language into which the translation is to be made. Even this principle, he showed, implies the existence of correspondent ideas and words in the two languages, which existence is not always to be found. At the same time for practical purposes we may assume that principle as generally, though not quite universally true; and having found our corresponding words, must stick to them uniformly, unless sufficient reason compel us to

deviate from that uniformity occasionally. The converse of this principle is that, under the like conditions of limitation, no one word in the language to be translated into should be used to express different words of the original, *i.e.*, if "sword" (for example) be the true correlative of "ensis" some other correlative must be found for "ferrum," as "steel," or some similar word. A corollary to these two propositions is that positive words must only be rendered by positive, and negative by negative.

Connected with these primary principles of uniformity and exactness are their applications to manifold details. Among these details prominent places are occupied by moods, voices, tenses, cases, and particles. An abstract, of course, can only just present the outlines of a subject, and we must, therefore, content ourselves with very briefly pointing out the line which the lecturer took. Of the moods he said nothing specific, nor yet much as to the voices; these being matters too generally admitted to be important to need any particular notice, except that he maintained the existence of a "middle voice" in our own language, although modern carelessness is allowing that existence to be wellnigh forgotten. On the difficulties presented by tenses he dwelt more explicitly, and took occasion to recommend, as a very valuable aid to their right understanding, a little work on *The Powers of the Greek Tenses*, by F. W. Harper, Fellow of St. John's, Cambridge. So again with regard to cases; he contended that each case has an original peculiarity of its own, and that the differences of meaning attaching to such prepositions as govern more than one case—which to the youthful beginner or the careless observer may appear arbitrary—will, on examination, be found to be strictly the result of these root-meanings. Similarly the cases governed by verbs, &c., will be found explicable by the same principle. Particles, too, the bugbear of the tyro in *Homer*, for instance, especially, will be found, however refractory they may at first sight seem, to be as amenable to law. The difficulty of discovering their derivation and original meaning may be great in the first instance; but that difficulty once surmounted, the accretive senses, which in course of time gradually gathered round the root-meaning, will generally in the case of particles, no less than of other words, be found easily traceable, and capable of systematic exposition. Other niceties, in the use (for example) of the article and the pronouns, the lecturer could only just touch on; but he drew attention particularly to the

order of words, suggesting that every author worth reading must have some reason for the way in which he disposes his words and sentences, and that the preservation, so far as possible, of such order and sequence is often a great aid to his right understanding.

Enough has been said to show the extent of ground which the lecture covered, and the rigour of the principles it laid down. If some should be ready to take exception to this rigour, as tending to deprive a translation of all ease and life, to make it wooden and mechanical, let such, in conclusion, observe the purpose which the lecturer had in view. That purpose he told all his hearers plainly enough was a very definite, albeit it might be a very humble one : it was to give hints for furnishing the student in the very outset of his studies with something which might stand him somewhat in the same stead as the scales and exercises before referred to in the case of the student of music. These scales and exercises require the skill of a master to compose ; they are discarded when proficiency in the art is attained ; but their utility, nay more, their necessity, in the early stages is undeniable. The lecturer illustrated his paper by quotations from a metrical rendering of the tenth book of the *Odyssey*, which he had himself made, subject to all the rules he sketched in the paper in question ; and this translation, as well as some others which he referred to, curiously illustrate the comparative terseness of the English language, if measured by the number of syllables which it takes to express itself. This, as Mr. W. C. Green (late Fellow of King's College, Cambridge, perhaps the ablest editor of *Aristophanes* who exists), has well pointed out in the preface to his metrical version of the first two books of the *Iliad*, is a far truer test than that of the number of words ; but it may surprise some to hear that, tried by this standard, English will bear comparison with Latin itself. The lecturer expressed his conviction that the true worth of all scholarship was its bearing upon Holy Scripture. Whatever tends to improve the accuracy of our scholarship must therefore be valuable as tending to improve our acquaintance with that sacred book. If he had pointed out certain ways in which this accuracy might be secured, he hoped he had done some service to a cause which was very dear to his heart ; and he would commend to abler and better read scholars the discussion and improvement of the principles he had endeavoured (however imperfectly) to enunciate and follow.

THE PERAMBULATION OF DARTMOOR. (1240.)

ABSTRACT OF MR. SPENCE BATE'S PAPER.

(Read October 26th, 1871.)

IN this lecture Mr. Spence Bate compared the boundary line of the Perambulation of 1240, as shewn in an ancient map, with that of the forest boundary of the present date, and shewed the alterations in the various readings, as well as the changes that have taken place in the boundary of the forest. The annexed table shews the names as they exist in the original map, 1240; the perambulation of 1609; and the recent maps:—

MIRACLES, FROM A PHILOSOPHICAL POINT OF VIEW.

ABSTRACT OF PAPER BY REV. J. M. CHARLTON, M.A.

(Read November 2nd, 1871.)

THE object of the lecture was to investigate the *a priori* admissibility of miracles, apart altogether from any allegations as to their actual occurrence, in any former period of the world's history. In pursuance of this object the lecturer, rejecting the notion of a miracle as merely an extraordinary or inexplicable event, defined it as an immediate personal exertion of the Divine power, independently of, and apart from, the established system of nature. After showing, that in the sense of the given definition, miracles are formally impossible under the Atheistic and Pantheistic theories of the constitution of the Universe, the lecturer proceeded briefly to explain the principles of Theism, with special reference to (1) The existence of one personal Deity; (2) The real significance attaching to the idea of Creation; (3) The objective antithesis between the Creator and the created universe, in the sense that the proper attributes of neither can be predicated of the other. Having thus cleared the way, he proceeded to notice some Theistic misconceptions of the nature of miracles, arising from indefinite notions of the real distinction between Theism and Pantheism.

Among these he directed particular attention to the attempt of some Theists to vindicate the possibility of miracles, by referring them to a higher law of the universe, not at present within the range of our comprehension. Having shewn, that all reduction, even in idea, of a miracle under a natural law at once destroys its miraculous character, the lecturer then dwelt at considerable length upon two Theistic objections to the principle of miracles; (1) That it is inadmissible to conceive of the Deity as violating or suspending the order which He has established; and (2) That sound philosophy requires us to believe that God has formed and adjusted the system of things so perfectly, as to preclude the necessity for occasional interference with its operations. These objections, the lecturer showed, rest upon one and the same misconception of miraculous interposition, and maintained that either it takes place outside of the sphere of nature, or affects its laws only in the way of counteraction, and not of violation or suspension, in a manner analogous to the antagonisms of opposing natural forces and the equilibria which often result from them. The lecturer exposed the principle underlying the latter of these objections, as denying all personal action to the Deity, as if He had created a huge machine to discharge all Divine functions in his stead, and maintained, on the contrary, that the Deity must be regarded as having a boundless sphere of free personal activity in relation to higher ends, which the system of nature was not intended to fulfil. The lecturer next adverted to the criteria of miracles, and proceeded to specify certain features by which, taken together, they might conceivably be discriminated from natural events. Challenged, by a supposed objection, to affirm the impossibility that, even such events as opening the eyes of the blind, or raising the dead to life, could be produced by natural laws; he replied by the counter-challenge, to declare the impossibility of the contradiction of any of the most firmly established inductive truths, somewhere in unexplored regions of the universe; and he contended, that both for what is *within* and for what is *beyond* the compass of natural powers, we must adhere to our inductive conclusions, regardless of abstract possibilities. The lecturer concluded by pointing out the nature and limits of the evidence which may in any case be afforded to miracles.

THE DIRT WE EAT.

ABSTRACT OF PAPER BY MR. WILLIAM SQUARE, JUNR.

(Read Nov. 9th, 1871.)

ALL dirt that gets into our food must of necessity be of two varieties, accidental and what is put in on purpose; this latter is called adulteration. The lecturer took various sorts of food, and described their dirt adulterations and deleterious portions. He first spoke of meat, the various diseases of animals and their consequences. Next of bread, as of two sorts, leavened and unleavened. He spoke of the various diseases of the wheat plant, and of the various adulterations to which bread was subjected. He shewed why alum and sulphate of copper were used. In speaking of unleavened bread, he described baking powders and mixtures, and shewed their evils. The rest of the edible amylaceæ were described; and then milk. The lecturer spoke of the great importance of this article being pure, as the infant part of the population depended so much on it. He showed the iniquity of adding water to it, and spoke of the various other adulterations—next of butter and lard.

In the description of sugar he showed the value of refined sugar compared to raw. He described the dirt of raw sugar—the pieces of cane and acari; he quoted the results of the analyses of the Lancet commission—next of tea, coffee, and allied beverages. The report of the Select Committee of the House of Commons went to show that tea is a comparatively unadulterated article; coffee on the other hand was very roughly treated. He spoke of chicory, and how enormously it was adulterated. The analyses of coffee were spoken of, showing in how many cases there was next to no coffee in the samples tested, in some cases none.

The lecturer now departed a little from his previous course, and described some articles of pure luxury. The first was mustard. Not one-third of what is sold as mustard is really so, but a mixture of flour, mustard, cayenne pepper, ginger and turmeric. The evidence of Mr. Gay, Superintendent of the Deptford Victualling Yard Mustard Department was quoted, showing that the bad article supplied to the Government had induced them to make

their own. He next spoke of anchovies, and showed the amount of red earth mixed with almost every sample. The last article mentioned was sugar confectionery. He gave a list of poisonous and non-poisonous dyes. The last have many times proved fatal. Instances were quoted.

Lastly, in reviewing the lecture, he showed how the luxuries of life contained more dirt and adulteration than the absolute necessities. He also spoke of a remedy for adulteration, viz., the examination of the articles of food and the advertisements of the results of the analyses in the local newspapers.

LITERATURE FROM THE EIGHTH TO THE TWELFTH CENTURIES.

ABSTRACT OF MR. ALFRED ROOKER'S PAPER.

(Read November 16th, 1871.)

THE names of illustrious men connected with each European country were mentioned, and reference made to the various Universities which had sprung up during the centuries in question, and to the secular and ecclesiastical places of education. One fact was important, and that was, that there was very little profane literature. The lecturer enumerated some poets who had written pieces which had no quantities, and could not be divided into feet. The intellectual condition of the Continent during these centuries was exceedingly unsatisfactory, as the kings, dignitaries, and prelates were in a state of extreme ignorance. It was a rare fact for a layman to be able to read or write, and the clergy were as ignorant as the rest. Several instances were quoted in which monarchs stated that they knew no one prelate who could either read or write. Books were extremely dear in these centuries. In 1471, even the King of England borrowed some books from an Egyptian, and as a pledge that he would return them gave him a large amount of plate, and, with a nobleman, drew up a deed providing for their safe return. Several instances were named tending to show the scarcity of books, which were to be found mostly in monasteries. In one instance, a monk condemned to death wrote a book, in consideration of which his soul, it was alleged, was brought back to his body after he had been executed.

Mr. Rooker referred to the prevalence of ornamenting the gospels, some copies being laden with gold, silver, and gems, and others printed in gold and silver letters. Curious inscriptions were put in these books cautioning persons against stealing or mutilating them. Various literary men were mentioned who distinguished themselves during these centuries. The lecture concluded with a description of the rise of literature in various countries.

VENANTIUS FORTUNATUS.

ABSTRACT OF MR. J. SHELLY'S PAPER.

(Read November 23rd, 1872.)

THE lecturer gave a brief sketch of the life and an account of the works of Venantius Fortunatus, born at Treviso about the year 530, Bishop of Poitiers at the end of the sixth century, and best known as the author of the hymn "Vexilla Regis."

Fortunatus was the composer of a great many clever, playful verses, most of them addressed to Rhadegund, the queen and saint, who founded a monastery at Poitiers about the middle of the sixth century. She persuaded Fortunatus to settle there as the steward and manager of the external affairs of the community. He received holy orders, and became the queen's secretary, her friend, and counsellor, and at last her biographer. Translations of some of the verses addressed to her, and of some of the longer and graver poems of Fortunatus, were given by the lecturer. In one of the latter, a poem on the brevity and emptiness of human life (Ad Jovinum, Misc. vii. 12), is a passage which anticipates, if indeed it be not the original, of Shirley's well-known lines—

"Only the actions of the just
Smell sweet, and blossom in their dust."

Fortunatus has been asking, Of what avail shall be weapons of war, beauty, or strength, music or poetic skill, when the last hour draws near? But, he continues, there is one thing that will save us :—

"Hoc valet atque viget, manet et neque fine peribit,
Huic quoque post tumulum nascitur almus honor.
Quod superest habitu meritorum flore beato
Suavis justorum fragrat odor tumulo."

A part of this poem is included by Fabricius in his collection of the "Early Latin Christian Poets," published in 1564, and Shirley may have met with it there.

The beginning of a poetical epistle to Felix, Bishop of Nantes (Misc. iii. 9), affords a good example of the best verse of Fortunatus. The grand Easter hymn, "Salve Festa Dies," is a cento taken from this poem.

"The spring is blushing, decked with new-born flowers,
And broader light streams through heaven's open gate :
The fiery sun climbs higher up the sky ;
From ocean rising, in its waves he sets,
His beams upon the rippling waters shine.
Now nights grow short, he lengthens out the day ;
The brilliant skies make Nature's face look calm,
And the clear weather testifies her joy.
The willing earth pours forth its various gifts,
And all its vernal wealth the year displays.
Sweet violet beds with purple tinge the lawn ;
The meadows green are thick with quivering blades ;
In many a field the springing corn appears,
And gives the farmer hope of full return.
From its pierced stem the vine sheds tears of joy,
And water yields where wine one day shall flow ;
From out the sheltering bark the swelling buds
Rise through the tender down and burst their folds.
The copse, stripped bare by tempests, now renews
Its leafy covering, growing freshly green ;
Leaving the hive, the bee among the flowers
Goes murmuring, gathering honey in its thigh ;
The birds awake to song again, erewhile
Made sad and silent by the winter frost.
Behold, the beauty of the world new born
Shows every gift returning with its Lord."

This kind of description of the revival of the earth in spring contributing to the gladness of Easter, and being a sort of symbol of the joy and glory of the resurrection, is very common among the mediæval poets ; but there is perhaps no more picturesque example of it than this, the earliest of all ; and, certainly, nothing can be finer than the outburst which succeeds—

"Salve festa dies toto venerabilis ævo,
Qua Deus infernum vicit et astra tenet."

It is curious, however, that the Christian poet, in his acclamation of the greatest of Christian festivals, should be found an imitator

of the pagan Ovid, as is undoubtedly the fact; for in the first book of the *Fasti* (l. 87) we have what was plainly in the mind of *Fortunatus*—

“*Salve laeta dies meliorque revertere semper
A populo rerum digna potente coli.*”

And the resemblance lies not only in this particular passage, but in the thoughts and words, and even the style of the whole of the two poems. Compare especially the reference to chaos in both (*Fasti* i. 103; *Fortunati Ep.* l. 89), and the manner in which both poets dwell upon the revivifying influence of the sun. It is not often that an imitation so far surpasses its original; but this is one instance among many of how the Church, freely using the old materials, whether in language, in poetry, or in art, infused into them, as it were, a new spirit, and added to them a grace and grandeur that was exclusively her own.

PAUPERISM.

ABSTRACT OF MR. A. P. PROWSE'S PAPER.

(Read November 30th, 1871.)

MR. PROWSE commenced by a reference to the growth of the national wealth. In 1770 Arthur Young computed the annual income of the nation at 122 millions, the population being $8\frac{1}{2}$ millions. In 1870 the national income for a population of barely $22\frac{1}{2}$ millions was £879,420,902. Population had thus increased $2\frac{1}{2}$ times, income more than 6 times. The exports in 1870 were $40\frac{1}{2}$ millions more than those of 10 years a century since, whilst the imports for 1870 were 185 millions in excess of those of a decade a hundred years ago. Whilst the total population of the United Kingdom had increased $2\frac{3}{4}$ times, the imports had thus advanced 22 times. Mr. Dudley Baxter estimated the value of the real property of the United Kingdom at £2,000,000,000, and of the personal at £4,000,000,000. An examination of the circumstances of British manufacturing trade shewed that whilst the manufactures were not beaten in the foreign market, the home trade had fallen off, which was in a great measure the cause of the depression under which Britain had suffered. Why was it that with so much wealth there was so much pauperism? According to the

Government returns—which Mr. Purdy held should be multiplied three and a half times—there were one million paupers in 1860, and a million and a quarter in 1871. Taking the Government figures, there were thus in England, one pauper in 21; in Scotland, one in 26; and in Ireland, one in 73. Most recent writers had attacked the system of out-door relief. In England the out-door paupers were to the indoor as 6 to 1; in Ireland, 2 to 1. The difference arose partly from the fact that out-door relief was discouraged in Ireland; partly because there was in that country a most efficient system of medical relief. In Ireland much larger sums were spent in medical relief than in England; but the sums expended in the relief of the poor were very much less. Plymouth, with a population of 63,000, spent £500 in medical relief, and £24,246 in the relief of the poor. Waterford, with a population of 60,000, spent £900 more in medical relief, but £12,000 less in poor rate. Passing to a consideration of the steps to be taken in dealing with pauperism, Mr. Prowse spoke in favour of the adoption of the Irish medical relief system, against the boarding-out scheme, for compulsory education, and for the application of the Factory Acts to the agricultural population. Some people advocated co-operation, others piece-work, as calculated to stimulate the energies of the working classes, who, it must be remembered, were very near the line of pauperism. He favoured the former. Emigration was not a panacea unless in exceptional cases. The currency question had much to do with pauperism. The coinage of silver should be more extensive; and its depreciation might be obviated by making it a legal tender for sums above £2. The land question was both large and difficult. He did not think the rich could be prevented from accumulating land, but the distinction between real and personal property in cases of intestacy should be removed. Large possessors of land should be required to cultivate a portion. Something should be done to prevent the enclosure of commons and the destruction of cottages, and the latter should be improved. The accumulation of the working classes in towns had produced a degenerate physique; and to counteract this an efficient system of medical relief should be established. Seventy-three per cent. of the pauperism arose from sickness. Especial care should be taken of the houses of the poor. His own opinion was that no house under £10 should be let without a licence from a sanitary inspector. Lastly, he came to intemperance, which was

on all hands admitted to be the great cause of pauperism. Stringent legislation was urgently called for; and he thought the suggestions of the committee of Convocation demanded the most respectful attention, and that before long the chief, if not all of them, would become the law of the land.

FEMALE EDUCATION.

ABSTRACT OF REV. J. METCALFE'S PAPER.

(Read December 7th, 1871.)

A DESIRE for social amelioration was one of the characteristics of the time, and education was one of the principal subjects by which the minds of thoughtful persons were occupied. The higher education of women had been overlooked, although it was one of the most important elements in the progress of civilisation. The efforts to spread elementary education had been directed to the benefit of both sexes. With regard to the education of the middle and upper classes, however, boys were educated for the world, and girls for the drawing-room. The slight estimation in which solid learning was held in the upper class of girls' schools might have sprung from the fact that there were no endowments for female superior training; or, perhaps, the slight estimation had produced that result. Few educational endowments were now applied to the benefit of girls; but many had no express limitation to boys, and there was no reason why they should not be applied for both. He was disposed to attribute the indifference still shewn to this question to a want of due appreciation of the nature of woman's work. It was stated almost as a truism, that the proper sphere of woman was the family circle, and that to step outside it was unwomanly. But the two were compatible, and woman had duties as well without the circle as within. The non-recognition of this fact led to the evils of which he complained. He did not contend that all girls should be educated for professions—all boys were not—but they should be educated to have an influence upon the circle in which they moved, and the age in which they lived. What was there in the life of an ordinary girl of the middle classes between leaving school and marriage to call forth her energies? Would it not be better if some definite pursuit were undertaken? Some

tried to improve themselves, but, as Mr. Robertson said, most of them read too much and thought too little. What seemed to be needed was not a greater taste for reading, but a deeper sense of intellectual work. Systematic and conscientious work was the duty of all. In the better class girls' schools, accomplishments occupied considerably more than a third of a girl's school life, facts about a third, and work requiring mental effort only a quarter. The present unsatisfactory state of female education was chargeable in the higher ranks far more upon the parents than the teachers. One of the most important steps to be taken was the creation of a more enlightened and earnest public opinion. There was a prevalent belief that men did not care to choose intellectual women as wives. If so it was a relic of barbarism; but it did not relieve parents from the duty of fitting their girls for the highest and noblest employments, whether married or unmarried. Change in the tone of public opinion must be the work of time. Meantime other suggestions were made, mainly the establishment of large schools or colleges for young women, and the improvement of teaching by examination and registration. Several female colleges had already been formed with the best results. A most important step had been taken by the appointment of the Schools Inquiry Commission. There was reason to hope that this would lead to legislative action being taken. He was proud as a member of the University of Cambridge that it had taken the lead in the matter of examinations for girls, for which Plymouth was one of the centres. Considering the disadvantages under which female candidates laboured, the results of these examinations were very encouraging.

ECONOMIC VALUE.

ABSTRACT OF PAPER BY MR. W. ADAMS.

(Read December 14th, 1871.)

VALUE was a relative term, and variations in men's estimates of value in use created exchange. Articles thus gained, in addition to their personal value, a new—an economic or exchangeable value. One element of exchangeable value was that the supply of an article should be limited, the next that it should be capable of

exchange. Exchangeable articles were to be classed under three heads—articles absolutely limited in quantity; articles that could be increased in quantity, but the increased production of which would be at a greater proportionate cost; articles that could be increased without any practical limit, and without additional cost. Articles, however, also partook of the conditions of the classes to which they did not primarily belong. Effective demand—the ability as well as the desire to purchase—governed the greatest value of an article. The coincidence between demand and supply might take place at any point between the limit of demand and the limit of supply. The natural value of articles of the first class—which included such things as pictures of old masters—was that at which the greatest number could be supplied when the demand had been foreseen. Agricultural and mining products came within the second class. Increased production in agriculture could only be attained by taking in inferior land, or by expending more labour and capital upon the land already in hand. Manufactured commodities were the principal example of the last class. So far as they were dependent upon raw materials they were subject to the laws of the second class. The value of the material, however, was small in comparison to that of the manufactured goods. The natural value of articles of the third class was that of the cost of production of the least expensively produced articles of the same description. Oscillations of price around the natural value occurred in the third class in consequence of the fluctuation of the demand. The variations in the price of the second class depended, on the contrary, upon fluctuations in the supply. Political economy was the science of wealth. The term social science was very commonly misapplied. Whatever took the form of a plan, and aimed at definite practical ends, was not really science. Political economy was, however, a science in the sense in which astronomy was a science. In considering the subject men should be taken as they were, which would prevent people from carrying political economy beyond its true sphere. It had nothing to do with morality and religion, but took account of all moral dispositions, and resulted from the fact that whatever might be men's aims in life they all had some needs and desires in common, and could assist each other to some extent. A real increase of moral and intellectual culture benefited society by the increased value in use it gave to objects consistent with it, and consequently the increased support it brought

to persons able to supply the needs it created. Political economy did not require any particular view from its students, but taught how all strivings might best be carried out, and showed that all efforts to improve society if they were to be lasting must be calculated to make higher objects necessities and not mere luxuries.

THE CONDITION OF OUR NATIONAL UNIVERSITIES, WITH SOME SUGGESTIONS FOR THEIR REFORM.

ABSTRACT OF PAPER BY MR. J. D. LEWIS, M.P.

(Read January 18th, 1872.)

AN inquiry would very soon arise in all the constituencies as to whether the bulk of the people were admitted to their fair share in the princely endowments of Oxford and Cambridge—he would not say in accordance with the altered spirit of their day—but in accordance with the actual intentions of the founders of the colleges. There were seats of learning at Oxford and Cambridge, it was said, before the Christian era, and some antiquaries of the former University claimed King Alfred as their mythical founder. The first authentic information dated from about the beginning of the thirteenth century, and in the reign of Henry III. they were told there were 30,000 students at Oxford. Considering the then state of the population this was doubtless an exaggeration, but the attendance of students at the time was very large, and drawn from the great bulk of the people. It was about this time that colleges were first founded, and these colleges were peculiar to England, nothing of the kind existing abroad, or even in Scotland. The most cursory glance at the statutes of most of these colleges would shew that they were intended for an entirely different class to that which now enjoyed their emoluments. The founders of All Souls and Magdalene Colleges, Oxford, expressly directed that the Fellows should be chosen from the poor. New College, Merton, Exeter, and Corpus were all designed as what was called poor men's colleges. In the statutes of Queen's College, one of the richest in the University, it was stated *pauperis vero tales nominari volo et assumi*. At King's College, Cambridge, in the statutes were the words *pauperis et indi gentes studentes*. The plain rule had never been observed. Nor were these the only portions of the founders'

wills which had been ignored. Speaking generally, any regulation which proved inconvenient to the governing bodies was quietly ignored. It had been computed that at Oxford the incomes of the heads of colleges were worth £18,000; the Fellowships, £116,000; the scholarships, £6,600; college offices, £15,000; room rent, £11,000. The gross annual income of the seventeen colleges at Cambridge was given, in 1852, as about £185,000 a year. The livings in the gift of the colleges at Oxford were worth £136,500 a year, and the livings in the gift of the Cambridge colleges might safely be put at £100,000 a year. They would be considerably below the mark if they took the revenues at the disposal of the Universities at £600,000 a year. In the way of education, next to nothing was done with this enormous income. Every student paid for his board and lodging, and on first being entered on the books of a college paid what was called caution money. Many other payments had to be made by the students, not one of which had been included in his estimate of University revenues. The £350,000 a year—excluding the value of the college livings—was employed in a manner which was not only wholly inconsistent with the spirit of the present day, but absolutely in defiance of the injunctions of the founders. It went to the maintenance of some 660 Fellows—about half of whom never came near the University at all; who did nothing whatever in return for the handsome stipends they received, for those that engaged in public or private tuition were paid, and not badly paid, by the students; who, generally speaking, had a berth for life if they abstained from matrimony; and who, if they went into orders, as they generally felt a call to do, had an insurance fund, in case they should choose to marry, in their prospective share of the £230,000 per annum represented by college livings. He did not deny that most of the fellowships were held by men who had taken high honours in the public examinations, and who were entitled to some reward; and he held that a considerable portion of the revenues of the Universities might with propriety be devoted to the stimulus of learning by the bestowal of fellowships. But he entirely objected to the conditions under which they were, for the most part, held. The condition attached to many of them that the holder must take orders within a certain time ought to be put an end to as profoundly immoral. The Universities required, and would receive, a complete change in their clerical and aristocratic character. No scheme for

properly dealing with the Universities would be satisfactory which did not in the first place restore the colleges to the position which they were designed to occupy by their founders. A considerable portion, at any rate, of the revenues of the colleges should be devoted to the purpose for which they were bequeathed. In estimating the amount which might, under a more judicious system, be made available for the higher education of the masses, they must not forget the college livings. The incomes of these amounted to a quarter of a million a year. He agreed with many of the younger Fellows at Oxford and Cambridge that it would be greatly for the benefit of the Universities if the advowsons of these livings were disposed of. If such a course were adopted, putting the value of the advowsons at the low rate of ten years' purchase, there would be two and a half millions, or about £100,000 a year added to the instruction and maintenance or partial maintenance fund. The endowments of England ought to be used to facilitate the progress of a clever and industrious lad from the primary school to a secondary school, and thence to the University.

PLATO'S THEORY OF EDUCATION.

ABSTRACT OF PAPER BY MR. W. MORRISON, M.P.

(Read February 1st, 1872.)

THE lecturer began by pointing out that Plato was, as far as we know, the first person who ever promulgated a complete system of education, and that every one who has followed him has borrowed from him, with or without acknowledgment. After tracing the points in which Athens and Great Britain present a parallel in the existence of high education and wealth by the side of great poverty, in their position as great mercantile and naval powers, and in the circumstances under which their colonial empires grew up, and in certain points of national character, the paper described Plato's scheme of universal compulsory State education, extending from the cradle to mature life, applicable to both sexes, and consisting of music and gymnastic, in the full Greek sense of the words, in mathematics, and culminating in the case of the favoured few in dialectic, the final objects sought being to penetrate to a conception of the true nature of God, to obtain a perfect government,

and to make the mass of the citizens good citizens and good men. Applying this to modern times, the paper suggested that however inapplicable much of the scheme might be, some of Plato's principles are still of value, such as that the object of education should not be to make men rich, but good citizens; that a check should be given to the modern system of trying to advance education by bribes of a valuable or honorary kind; and that it would be well to use the endowments of our Universities more for the advancement of pure learning and knowledge, and less as mere prizes, and to hold up to youth that knowledge is worth pursuing for its own sake, and not for the sake of merely getting on in life.

THE LIFE AND GENIUS OF TASSO.

ABSTRACT OF REV. J. M. CHARLTON'S PAPER.

(Read February 8th, 1872.)

THE object of the lecture was to call attention to the general merits of a branch of Foreign Literature, which now scarcely receives in this country the attention to which it is entitled, as a part of a liberal education. He took as a specimen the writings of Torquato Tasso.

The lecturer commenced by describing the masterpieces of ancient and modern genius as furnishing studies for the psychologist. He then adverted to the rise of the Italian language, and the general circumstances which led to its formation from the ancient Roman tongue; and mentioned some of its distinctive features as compared with Latin. He then proceeded to define the boundaries of what are called the golden and silver ages of Italian literature, the former filling up the fourteenth century, and the latter the sixteenth; the revival of Letters in the fifteenth, having led to an interval of decline by attracting special attention to the ancient classics. Torquato Tasso belonged to the silver age, born at Sorrento in 1544, and rising into universal fame as a poet some years before his death, in 1575.

The lecturer briefly sketched the circumstances of his youth and early manhood, and his connection with the Duke of Ferrara, and discussed the question of his attachment to the Princess Leonora. He then slightly touched upon some of the leading incidents of his subsequent years.

From this the lecturer proceeded to notice some of the principal works of Tasso. Having just mentioned the general nature and subjects of the Rinaldo, and the play of Torrismonde, he dwelt somewhat longer upon the Aminta, and the Gerusalemme Conquistata. After a passing reference to Tasso's numerous sonnets, the lecturer proceeded to unfold more fully the plan and theme of his great epic poem,—the Gerusalemme Liberata; here having particularly pointed out the distinctive features of an epic, he went on to deal with the subject and merits of the Gerusalemme. He endeavoured to shew how closely it is founded upon the models supplied by Homer and Virgil, the frequent appropriation of their matter, and the imitation of their ideals. He next directed attention to some of the principal characters of the Gerusalemme, particularly those of Godfrey and Tancred on the one side, and those of Argantes and Soliman on the other. He finally described the beautiful episodes introduced into the poem, as constituting the great charm of the whole; of these Sophronia and Olinda, Tancred and Clorinda, Erminia and Tancred, and above all Rinaldo and Armida came under review, illustrated by copious extracts from the translations of Fairfax and Leigh Hunt.

The lecturer closed with some remarks on the peculiar sweetness of Italian poetry, and commended the study of such compositions, in preference to the trashy novels of the present day.

THE VISION OF PIERS PLOWMAN.

ABSTRACT OF PAPER BY MR. D. SLATER, M.A.

(Read February 15th, 1872.)

MUCH confusion of thought and expression having prevailed respecting this poem, some having regarded Piers Plowman as the author of the Vision instead of the subject of it, and others having adopted a title likely to mislead,* it was proposed to call it "William's Vision of Piers Plowman," which is the exact equivalent of the Latin title found in numerous MSS.—*Visio Willelmi de Petro Plowman*. The full name of the author was probably, but not certainly, William Langland. It really consists of two parts—Piers Plowman proper, and the Life of Dowel, Dobet and Dobest.

* Thus Dean Milman calls it "Piers Ploughman's Vision." *Hist. Lat. Christ.* vi. 536. See also *London University Calendar* for 1867, p. xlix

It is the first great original poem in the English language, and shows its author to have been a man not only of good sense and independent thought, but of undoubted poetic genius. It exhibits to us the state of our language in the reigns of Edward III. and Richard II., and affords us also a more minute view of the social and material condition of the people at that period than any poetical work in English literature. Himself the precursor of Wycliffe, as Wycliffe was of Chaucer, the study of his work is the best preparation for the study of theirs. Each of the three is representative and supplementary to the others. "In Chaucer is heard a voice from the court, from the castle, from the city, from universal England. . . . In Wycliffe is heard a voice from the university." The author of the "Visions of Piers Ploughman," who exhibits "the passions and feelings of rural and provincial England, commences and, with Chaucer and Wycliffe, completes the revelation of this transition period, the reign of Edward III."*

The Vision soon acquired extensive popularity, and originated what may be termed a Plowman Literature, which prevailed till the reign of Elizabeth. In 1381—only four years after Langland had issued his poem in its second and enlarged form—Wat Tyler's insurrection occurred;† and John Balle, he who commenced his address at Blackheath to 200,000 men with the words—

"Whan Adam dalf and Eve span,
Wo was thanne a gentilman?"

sent to the Commons the following anonymous letter:

"I, Johon *Schep*, som tyme Seynte Marie prest of York, and now of Colchestre, greteth wel Johan Nameles, . . . and biddeth *Peres Plougman* go to his werk, . . . and taketh with you Johan *Trewman* and alle hiis felawes

Johan the Mullere hathe y grounde smal, smal, smal;
The kynges sone of hevene schal paye for all.

* * * * *

And *do wel* and *better*, and fleth synne,
And seketh pees and hold you thereinne,

And so biddeth Johan *Trewman* and all his felawes. ‡

In this communication, which Walsingham calls "quamdam litteram ænigmatibus plenam," we have not only Piers Plowman,

* Milman, *ubi supra*.

† This rising, however, is no more to be attributed to Langland than to Wycliffe. See Vaughan's *Life of Wycliffe*, ii. Note A.

‡ Thomas Walsingham, ed. Riley, ii. 34. Note.

but Dowel and Dobet(-ter); moreover, the name Schep (Shepherd) was probably suggested by the second line of the poem—

“I shope me in shroudes, as I a shepe were.”

And, to match Trewman, we have further on a certain Tomme Trewetonge.

The author was probably born at Cleobury Mortimer, in Shropshire, about 1332, and wrote his poem in 1362; enlarged and improved it in 1377, just after the accession of Richard II.; and again expanded it at a later period. These three forms of the poem, which have been called respectively the A-text, the B-text, and the C-text, are being edited by Mr. W. W. Skeat for the Early English Text Society.* That gentleman has also edited the former part of the poem, *Piers Plowman* proper, with an excellent introduction, notes, and glossary. (Oxford: Clarendon Press Series.) For the complete poem, with *Piers Plowman's Crede*, see Wright's edition, 2 vols. (Library of Old Authors.)

WILL AND LAW.

ABSTRACT OF PAPER BY REV. J. ERSKINE RISK, M.A.

(Read 22nd Feb., 1872.)

QUESTION stated : Are Will and Law in harmony or not? In order to ascertain this, inquiry must be made, Is Will an independent unreasoning power, or a reasonable power? The question solved by distinguishing between mental powers and susceptibilities, by a just analysis of motive and will, and by forming a clear notion of the process involved in the formation of a will, *e.g.*, of self-control. A course being thus marked out intermediate between the theory of the believers in absolute free will, and the believers in absolute necessity, the errors of the two schools were pointed out. Causation being thus indispensable to every exercise of power, the point of connection with Law was established. The essential harmony of Will and Law involved in the fact of free will being a reasonable, and not like a mere impulse, an independent unreasoning power. Illustration from a fully formed character. Uses of the doctrine in education, and in the general government of society.

* The yearly subscription to this society is only one guinea. Members of the Plymouth Institution may effectually promote the study of early English by becoming subscribers.

BRITISH STORMS.

ABSTRACT OF MR. T. W. COFFIN'S PAPER.

(Read February 29th, 1872.)

ONE day with another, according to "The Wreck Register" for 1870, there happens every twenty-four hours within ten miles of our own shores a collision more or less serious, a total shipwreck, and two shipping disasters; altogether four serious casualties, involving on the average the daily loss of two lives. In the year 1870—although that year was less disastrous than usual by a fourth—the number of wrecks, collisions, &c., amounted to 1502; and as every collision involves two or more ships, they represent the loss or damage of 1865 vessels, with a registered tonnage of 404,000 tons, and peril of life to crews numbering 16,348 men and boys. On analyzing the records of the past twenty years, and dividing them into four periods of five years each, we find that during the years 1851–5 the annual average of wrecks was 1068; in the next five years it had increased to 1252; for the next period of five years the average was 1538, and finally, during the five years which ended in 1870, it amounted to the large average of 1862 wrecks per annum. One thing, however, was consoling in the face of so many painful facts; viz., that as many as 4654 lives were saved last year, many hundreds of them by the lifeboats of the National Lifeboat Institution, which has now 230 boats under its management, and counts its successes by 800 lives a year, or 20,000 since it began its heroic operations. Attention was called to some of the less known consequences of the extreme changes in the air's pressure and temperature during great storms. There appears to be a marked coincidence between the time of the greatest atmospheric disturbances and the occurrence of the greatest number of fatal accidents from gas in coal mines. Meteorology was one of the chief subjects of science for popular study, and although considered by some to be complicated and vague, seemed in some particulars to approach closely the character of an exact science. Its leading feature appeared to be, that in each hemisphere there are two great currents of air in incessant motion throughout its whole extent—one from the pole to the equator, another from the

equator to the pole. These currents result from the unequal temperature of the earth's surface, and nearly all that remains of the general history of the atmosphere is included in the account of the causes which disturb the uniformity of their course. Westerly gales are far more destructive to shipping on and near our coasts than easterly gales, the most destructive being from south-west; but there seems less occasion to give warning of southerly storms by signals than of northerly, because the former are preceded by a falling barometer, and by a higher temperature than usual; whereas, on the contrary, storms from a polar quarter are sometimes sudden, and are usually preceded by a rising barometer, which often misleads, especially if accompanied with an appearance of fine weather. The storms which pass over the British Isles are found to act in strict accordance with the "cyclonic" theory. In many cases, however, the phenomena become highly complicated, owing to the interference of two or more cyclones. The heaviest storms which pass over Great Britain generally have a progressive motion from south-west to north-east, and the most frequent track of their centres is a line passing in that direction across the North of Ireland and the South of Scotland. The numerous balloon ascents have not only yielded abundant proof of the pressure of air currents at various elevations, quite independent of each other, having very different temperature, and moving with apparent steadiness in some fixed direction; but a contrast or diversity in force between the currents prevailing at different elevations is invariably observed. The lecturer could scarcely feel confident that the electrical phenomena exhibited during heavy gales were not effects rather than causes. Much now was said on the subject, and the question was asked in passing, "Are we in a position to say that actinism does not assist in creating some of the atmospheric disturbances now wholly unaccounted for?" If electric states of atmosphere can convert oxygen into ozone, light in its different degrees of intensity cannot well be supposed without influence on the inorganic parts of the aerial medium through which its passage lies. In conclusion, the system of storm signals and warnings now in use was noticed, and a hope expressed that before long some such a system as that which has for years been in use both in Paris and St. Petersburg, viz., the publication every morning of a sheet containing the mapped climate of all Europe of the day but one before, may be adopted in England.

PUBLIC HEALTH.

ABSTRACT OF MR. G. JACKSON'S PAPER.

(Read March 7th, 1872.)

HAVING read on two previous occasions papers before this Institution on the cognate subjects of Air and Food, considering the interest now manifested in the subject of sanitary matters owing to recent events, the topic seemed appropriate.

Neglect of sanitary regulations in the mansions and palaces of the rich, as well as the dwellings of the poor. Mr. Rawlinson, C.E., states that in 1844 there were 53 cess-pools under Windsor Castle, and its condition was such that no one should live there. The cost had been £750,000.

It is satisfactory to find that the importance of the subject is awakening attention. The Ennis Sanitary Committee, in a Memorial to the Commissioners of National Education in Ireland, recommend the teaching of hygiene in schools.

Preventible causes of disease :—

1st. *Impure atmosphere* from overcrowding, the escape of sewage gases, and the diffusion of Arsenic from wall-papers.

2nd. *Impure water* from the admixture of organic matter, or absorption of sewage gas.

3rd. The neglect of preventive measures, such as vaccination, and the isolation of those who are suffering from infectious diseases.

4th. The excessive indulgence in intoxicating liquors.

The impurities of the Air had been dealt with in a previous paper, especially as regards overcrowding and vitiation from want of ventilation. As a point bearing on this, some remarks were made on the dwellings of the poor. As a rule the poor live in houses which were at some previous period inhabited by families of a superior class, one of which occupied the whole house. When let out in rooms there is no convenience for those living in the upper rooms for getting water, or carrying away refuse, but everything has to be dragged up and down stairs. Mr. B. Fletcher proposes to alter such houses by carrying up the water and having a shoot for ashes. Many of the model lodging-houses are deficient

in several respects. The Lunsden dwellings, Glasgow, have no windows in the bedrooms. Houses let out in rooms should be licensed for a certain number, the same as common lodging-houses.

The effects of sewage gas on health, whether when absorbed into the drinking water, or when mixed with the atmosphere, are not sufficiently appreciated; there is no doubt but that it is a prime cause of typhoid fever, and caused the illness of H.R.H. the Prince of Wales. This cause costs the lives of about 20,000 persons annually, and ill-health to 100,000 more. All drains should be ventilated. Dr. Carpenter, of Croydon, recommends, and the plan is carried out there, of carrying all the pipes connected with the drains to the top of the house and leaving them open. If this is not done, not only do the gases escape into the house, but they act on the pipes, and act through them, although there may not be any such perforation as to permit liquid to pass; hence the plumber would probably attribute the bad smell to dead rats.

Although we are very far from perfection in sanitary matters, yet, contrasted with former times, we are in a much more favourable condition. If the mortality of London, during an epidemic, was to be at the same rate as during the great plague of 1665, half the population would be dead in a year.

The organic matter in water should not exceed 1.5 grains per gallon. In the Plymouth water there is only 0.54.

The use of cisterns, however, is very pernicious, especially amongst the lower classes, where there is great neglect in keeping them clean and free from organic impurities. A constant supply seems to be the only remedy. Twenty-five gallons per head is the least quantity that should be allowed.

Of disinfectants, heat and charcoal are probably the best. The power of the latter in absorbing gases is well known. Too frequently such disinfectants as carbonic acid, &c., are used to conceal the consequences, the cause of the escape of gas, &c., being left alone.

Sanitary Legislation. A step in the right direction has been taken by Mr. Stansfeld in his bill, which he has just introduced. He does not, however, attempt at present any consolidation of the numerous sanitary acts which are often contradictory and extremely difficult to interpret. Sanitary functions are classed and separated without any regard to any real affinity or difference. Local self-government should be maintained; and direction only remain in the

central authority. The relief of the poor, suppression of causes of disease, and treatment of epidemics, should be carried out under one administration. The officers of the one should also be those of the other. The medical officers should also be officers of health, either connected with a more complete inspectorate, or with chief officers of health for divisions of counties, &c.

Sickness, of an epidemic character especially, should be registered as well as deaths, so that immediate action could be taken by the chief medical officers of health to stamp it out at once. The law is deficient in many respects. To prevent the pollution of a river, an injunction in Chancery must be obtained. The providing of disinfectant apparatus and of mortuaries is not compulsory. All the provisions are too much of a permissive character. Those who intend to do these things do not require permission, and it is of no use to those who won't; for them compulsion is the only efficacious means.

NATURAL HISTORY: NOTES FROM THE ANTIPODES.

ABSTRACT OF CAPTAIN BRIGGS'S PAPER.

(Read March 14th, 1872.)

THE lecturer commenced by disclaiming for his subject a purely scientific treatment, and defined the humble aim of his paper as an attempt to give a slight sketch of the natural history of our Antipodes, and at the same time to institute a comparison between the natural features and productions of our own country, and one which has not inaptly been called the "Britain of the South."

He limited the scope of his paper to the relation and consideration of facts connected with the natural history of the North Island of New Zealand, from his special acquaintance with that Island, and from the impossibility of dealing with a more extended area in the time allotted to him.

The position and extent of New Zealand was next considered, and the reference to shape in the native name for North Island, "Te ika a Maui," *i.e.*, "The fish of (the god) Maui," was explained.

Its littoral aspect, and the cause of the absence of good harbour accommodation on the west coast, was investigated.

After endeavouring to give an idea of the extent and character of the New Zealand "Bush," he proceeded to describe an ascent

of Mount Egmont, made on the 31st March, 1869, and to notice the animals and plants then met with.

Attention was next directed to the steel sand of Taranaki, and the difficulty of smelting it on a large scale.

A description of the east coast was attempted, and an account given of the volcanic formation of the Island as interpreted by Hochstetter.

A visit to Whakari, an active sunken volcano, forming an island in the Bay of Plenty, was then described, and an account given of the hot lakes and sulphur springs near Lake Taupo.

Noticing the small attention that seems to have been yet given to the less attractive, but equally important, geological features of North Island, the lecturer closed this portion of his paper by showing that, in the remarkable absence of most of the chief groups of secondary rocks (as far as yet determined), the geology of the Island presented a marked contrast to that of the Australian Continent, and added weight to the opinion that these two countries could never have been in any way connected.

Turning to the fauna of the Island, the remarkable absence of terrestrial mammalia was briefly noticed, and some particulars respecting the few reptiles were given.

Previous to describing some of the more interesting birds of the Island, the history of the extinct "Moa" was dwelt on at some length, and different opinions given as to the cause of its sudden disappearance.

After a brief review of some of the fresh-water fish and insects, the lecturer concluded by giving a short account of the native inhabitants of the Island.

ON IRON.

ABSTRACT OF PAPER BY MR. W. BEER.

(Read March 21st, 1872.)

FRANCIS HORNER once observed that Iron is not only the soul of every other manufacture, but the mainspring of civilized society. Our immense supplies of this material enable us to keep our supremacy amongst nations. Iron is, of the metals termed useful, the most difficult of reduction from the ore. Hence it was the last to come into use. Perfectly pure Iron is almost unattainable.

Carbon exists in it in every form ; the least in wrought Iron, more in Steel, and most in Cast Iron. The applications of Iron are constantly extending, and since we are the principal manufacturers, our trade increases in the same rapid proportion.

The value of Iron, Steel, and Telegraphic Wire exported in 1856 was £13,046,183; the value of the same exported in 1870 was £23,602,897. This was accompanied by an equal increase in our home consumption, our manufacture of Pig Iron increasing from 3,586,377 tons, value £8,963,942, in 1856, to 5,963,515 tons, value £14,908,787, in 1870.

The Ancient Britons were probably acquainted with the incomplete method of reduction known as the bloomery process.

Bellows were at first only used to raise the fire. Afterwards they were applied during the whole process. The increased heat caused by the continuous blast would cause a slight carbonization, and necessitate a refinery furnace.- A gradual enlargement and heightening of the furnace, by lengthening the time of contact between the ore and fuel, would at last produce Cast Iron. This valuable property was first applied to gun-founding. In 1581 our early Iron trade reached its culminating point; in that year the make was 180,000 tons, and our importation had declined to 20,000 tons. The rapid destruction of the forests reduced the make in 1748 to 17,000 tons, and increased the imports to 50,000 tons. Pit coal was successfully used at the Coalbrookdale Works by Reynold in 1757. In 1760, Dr. Roebuck, of the Carron Works, erected cylinder blast engines, improved by Smeaton. In 1762, he patented the reverberatory furnace for refining, using coke or charcoal with a blast. In 1766, the Cranages improved the refinery so as to be able to use raw coal without a blast. In 1783, Onions patented the principle of the puddling furnace; and in 1784, Cort patented improvements on the puddling furnace and the application of grooved rollers for making bars. The application of steam to the blast-engine greatly increased the yield of the furnaces.

In 1828, Neilson patented the hot blast, which was specially suited for smelting the black band of Scotland, discovered by Mushet in 1801. The railway excitement of 1845 caused a great extension of Iron-mining. The Cleveland Beds, developed in 1850, assisted to supply the increased demand. Bessemer's patents enabled us to make good steel from our own ores. The latest

improvement is the substitution for hand labour in puddling. The principal supplies of ore are derived from the coal measures—argillaceous ores and black band. Lesser supplies are derived from the lias and oolite. The mountain limestone produces red and brown hematites; and the Devonian rocks afford brown hematite and white carbonate.

A lode containing magnetic ore has recently been discovered at Monksmoor Farm, near Ugborough Beacon.

THE PRE-HISTORIC REMAINS OF BRITTANY.

ABSTRACT OF CAPTAIN OLIVER'S PAPER.

(Read March 28th, 1871.)

THE lecture was an exhaustive statement of the conditions under which the megalithic remains of Brittany occur, and of their relationship to the allied monuments in other parts of the world—specially the West of England—with an examination of the many theories which have been started concerning them, down to the very latest, those of Mr. Ferguson. Captain Oliver endorsed the view that the ancient seat of the builders of the dolmens (the varying kinds of which he fully and clearly described) was in Central Asia, and that they were a conservative and exclusive race, who, resisting absorption by a superior people, were expelled from their aboriginal homes westward—one branch passing along the northern shore of the Mediterranean, and the other towards the coasts of the Baltic. From Scandinavia they reached the British Isles and Brittany, passing on through Spain and Portugal into Africa, the dolmens of which are the most recent known, as those of the Crimea are the most ancient. More generally known than the dolmen mounds of Brittany are the stone avenues and circles of upright stones found at Carnac and other places in the department of the Morbihan. These remains Captain Oliver had visited and surveyed in company with Sir H. Dryden and the Rev. W. Lukis. He considered them and the similar but smaller megalithic structures of Dartmoor and other parts of this country to be of a sepulchral origin. All cromlechs, dolmens, kists, and other sepulchral stone chambers he held to have been originally covered with tumuli. Some of these latter had their basements strengthened by

revetments or boundary walls of large upright stones. Where such tumuli have disappeared these stones would remain as circles. The avenues Captain Oliver regarded as approaches of a ceremonial character connected with funeral rites, not necessarily only those which preceded interment, but for subsequent visitations. In like manner he considered that the elaborate sculpture found in the interior passages and chambers of some of the dolmens indicated that it was intended they should be opened and entered occasionally. These views the lecturer strengthened by a reference to customs existing in China. The lecture contained several allusions to the labours of Mr. Spence Bate for the elucidation of the pre-historic archæology of Dartmoor, and was illustrated by a number of admirable sketches and plans by Captain Oliver, and by some excellent models of dolmens, kistvaens, and tumuli, the work of Mr. Bate.

To the Editor of the Plymouth Institution Journal.

ON THE INSECTS THAT FREQUENT THE FLOWERS OF THE COMMON PRIMROSE.

(*Primula vulgaris*.—HUDS.)

FOR two Springs past I have been endeavouring to gather facts bearing on the fertilization of the common Primrose, and to ascertain which species of our larger insects may, from being seen on its flowers, be reasonably considered to take part in effecting this. My attention was first directed to the subject from my having read an article by Mr. Charles Darwin in the *Journal of the Linnean Society* (vol. x., Botany, pp. 437–454), wherein this distinguished writer, when speaking of the less obvious differences between the Cowslip and the Primrose, observes, “The Cowslip is habitually visited during the day by humble bees (viz., *Bombus muscorum* and *hortorum*, and perhaps by other species), and at night by moths, as I have seen with the *Cucullia*. The Primrose is never visited (and I speak after many years’ observation) by the larger humble bees, and only rarely by smaller kinds; hence its fertilization depends almost exclusively on moths.” I made last year some remarks in the *Journal of Botany* (vol. viii., pp. 190–91) on these assertions of Mr. Darwin’s, to the effect that in the neighbourhood of Plymouth we have a humble bee (*Anthophora acervorum*) that often visits the Primrose, and that I had caught individuals in the act of gathering from it. I added: “There is also a very small bee (*Andrena Gynanna*) that seems to get a vast quantity of pollen from Primroses; for I have seen it on these flowers with the posterior tibæ loaded with golden masses. The Brimstone Butterfly (*Gonepteryx Rhamni*) also visits them, as I have witnessed this Spring. We have another insect that seems to obtain most of its food from Primroses at this season of the year, visiting them perhaps more frequently than either of the bees or the butterfly: it is a dipterous one (*Bombylius medius*). Repeatedly have I watched it inserting its long proboscis into the tube of the corolla,

much in the manner of the gayer Humming-bird Hawk Moth when gathering from a honeysuckle bush or a bed of verbenas." Farther observations, carried on in the Spring of last year, after the article just quoted from was written, revealed the fact that a humble bee, of moderate size and very dark colour, of which I have not as yet ascertained the name, is, in addition to the insects already named, partial to gathering from Primrose flowers; and respecting it and other matters connected with my subject I extract the following particulars from "note-books:"—

April 20th, 1870.—I saw five of the dark humble bees gathering from Primroses, and one of *Andrena Gwynanna*; the latter had large masses of pollen on its thighs.

April 23rd.—I noticed six of the same dark humble bee on Primroses, which flower is certainly a favourite with it. I watched some from plant to plant, and also saw two specimens of the *Andrena* busy on them, apparently collecting pollen. I saw a *Bombylius* visit a great many, probing their tubes most delicately, When doing this, I noticed that it rested its fore feet on the corolla. but kept the wings vibrating.

April 30th.—I saw three of the humble bees gathering from Primroses. On one I noticed pollen by the side of the proboscis. These bees seem to frequent the Primrose more than any other flower.

May 9th.—I watched one of the dark humble bees gathering from Primroses, which it visited exclusively: it carried large masses of pollen.

April 4th, 1871.—I noticed another of these bees gathering from flowers of both *Primula vulgaris* and *Viola Riviniana*. On the same day my brother saw numbers of *Anthophora acervorum* on Primroses about Trehan, near Trematon, and also one of the dark sort.

April 15th.—I caught a very large humble bee between Plymbridge and Plympton, as it was gathering from Primroses. On examining it I found that it had four pollen masses of an Orchis attached to its face—a proof that it had not visited one species only. They were doubtless those of *Orchis mascula*, the only plant of the order at all common about Plymouth likely to be open so early in the year. I noticed one of the dark bees gathering, apparently indifferently, from Primroses and the flowers of *Viola Riviniana*.

The above facts prove, I think, that, at least in the neighbourhood of Plymouth, the fertilization of the Primrose need not depend "almost exclusively on moths," since we have here so many other insects that habitually visit it.

T. R. ARCHER BRIGGS.

4, *Portland Villas, Plymouth.*

SOME ANCIENT JETTONS FOUND IN PLYMOUTH.

SIR,—Many years since a brass Abbey-piece, $\frac{1\frac{3}{8}}$ of an inch in diameter, was dug up in the field adjoining this house, the design and legend of which are very, if not quite, similar to the photograph No. 4 in the Society's last Report, and it may as justly be called a Devon as a "Norfolk" Jetton.

The figure of the ship on the pieces taken from the site of the new Guildhall is, I fear, not sufficient proof that these were really Plymouth Abbey-pieces, as such a device was often on our early coins; and Pinkerton says that those silver touch-pieces which were hung round the necks of those whom the king touched for the evil had a ship on one side and St. Michael on the other.

If the ships on the Abbey-pieces and in the ancient arms of our town were similar, then there could be little doubt that these were the Jettons of our Monastery; but this, I think, is scarcely the case, as by the MS. in the British Museum the ship borne on our shield had three masts, without yards or sails, with a fire-beacon on the main-top.

Clearly Nos. 1 and 2 are not struck from the same die.

Does Snelling speak of pieces like Nos. 1 and 2 in his work on "Counters"?

Akerman gives the legend on No. 3 as "AVE MARIA GRACIA PIL."

Believe me, Sir, faithfully,

T. H. MITCHELL.

Eton Villa, Plymouth, Nov. 16th, 1871.

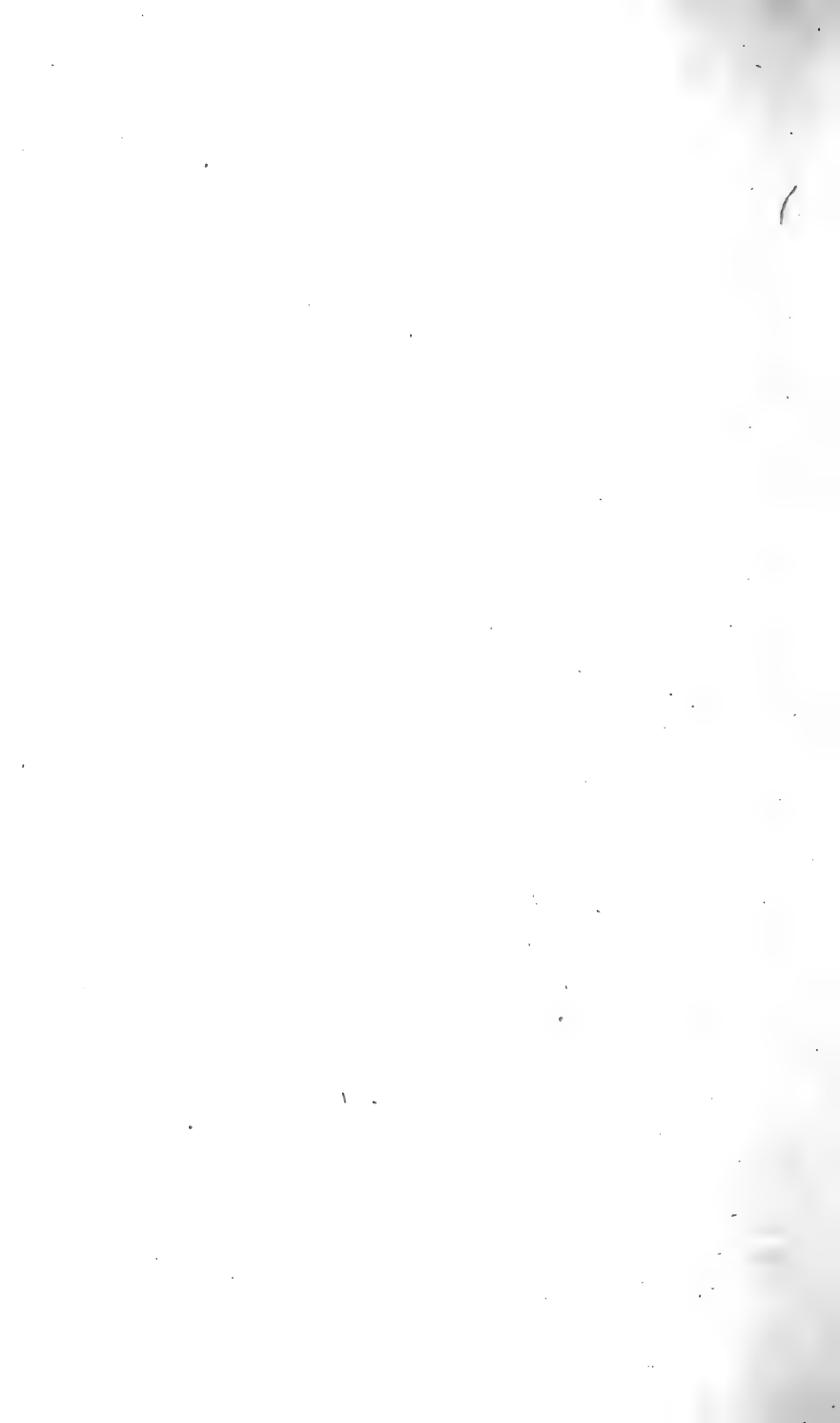
THE
THREE TOWNS BIBLIOTHECA:

A Catalogue of
BOOKS, PAMPHLETS, PAPERS, ETC.,

WRITTEN BY NATIVES THEREOF; PUBLISHED THEREIN;
OR RELATING THERETO;

WITH
Brief Biographical Notices of the Principal Authors.

BY
R. N. WORTH,
HONORARY MEMBER OF THE PLYMOUTH INSTITUTION.



PREFACE.

THESE pages contain a list of nearly 1900 books, pamphlets, papers, and prints, by upwards of 700 different authors, connected more or less intimately with the three towns of Plymouth, Devonport, and Stonehouse. The aim has been to include so far as possible every distinct work written by natives of the Three Towns, or by persons whose long residence has identified them with the locality; every book or pamphlet published therein; and such scattered scientific and other papers as specially refer to the district, or are, from authorship and other circumstances, entitled to particular reference. It was not possible—nor even if possible would it have been desirable—to expand this Bibliotheca to the bulk requisite to set forth completely the fugitive literature which has originated in the associated metropolis of the West. For the same reasons it has not been deemed expedient to deal with publications of a merely official character, unless in certain exceptional cases, nor to make more than a passing reference to the bulk of the reports of the charitable and other public institutions.

The materials for this Catalogue have been sought in every available direction, including the British Museum, Devon and Exeter Institution, Plymouth and Cottonian, Plymouth Institution, Penzance and many private Libraries. *Davidson's Bibliotheca Devoniensis* has likewise been carefully collated. Its references to the literature of the Three Towns are, however, scanty. A far more thorough work is the *Bibliotheca Cornubiensis* now in progress, to the completed sheets of which I have been frequently indebted. Much assistance has been rendered me privately, especially by Mr. J. Brooking Rowe and Mr. H. S. Hill, which is here thankfully acknowledged. For a number of the entries second-hand references only exist; the titles therefore are in many cases necessarily imperfect.

It has been thought desirable, in order to facilitate reference, that the works should be arranged alphabetically, according to the first prominent word in their titles, under different heads. This arrangement is qualified by the grouping together of works which

are intimately connected or dependent, and by the use of subclasses where several are referable to one secondary head. To those which are known to have passed through more than one edition an asterisk is prefixed. An index of a semi-biographical character shows what are the writings of every author mentioned.

Most of the references and abbreviations used are self-explanatory. Still, in order to avoid the chance of error, it has been thought desirable to annex a complete list: *Ann. of Phil.*—*Annals of Philosophy*; *Ann. and Mag. Nat. Hist.*—*Annals and Magazine of Natural History*; *Brit. Med. Ass. Trans.*—*Transactions of the British Medical Association*; *Devon. Ass. Trans.*—*Transactions of the Devonshire Association*; *Geo. Soc. Trans.*—*Transactions of the Geological Society*; *Geo. Surv. Mem.*—*Memoirs of the Geological Survey*; *Journ. Bot.*—*Journal of Botany*; *Linn. Trans.*—*Transactions of the Linnæan Society*; *Loud. Mag.*—*Loudon's Magazine of Natural History*; *Med. Com.*—*Medical Commentary*; *Med. Mem.*—*Medical Memoirs*; *Phil. Mag.*—*Philosophical Magazine*; *Phil. Trans.*—*Philosophical Transactions*; *Phil. Soc. Trans.*—*Transactions of the Philological Society*; *Phyt.*—*Phytologist*; *Plym. Inst. Trans.*—*Transactions of the Plymouth Institution*; *Plym. Meeting Brit. Ass.*—*Plymouth Meeting of the British Association*; *Proc. Geo. Soc.*—*Proceedings of the Geological Society*; *Quar. Jour. Geo.*—*Quarterly Journal of Geology*; *R.C.P.S.*—*Royal Cornwall Polytechnic Society*; *R.C.G.S.*—*Royal Cornwall Geological Society*. For some it may be needful to add that until 1824 Devonport was known as Plymouth Dock.

It is a necessary condition of compilations of this class that absolute completeness is unattainable. The first local work in this direction was performed by Mr. J. C. Bellamy, who, in 1850, printed a catalogue of "all works relating to Devon and Cornwall," the fruit of the labour of several years. It contains the titles of 256 publications. The list here given, with its 1900 entries and more limited area, covers a period of three centuries, and must still have many omissions. Doubtless some of these will readily be supplied by those into whose hands it may fall. I am, however, sanguine enough to believe, that for the most part they will be found of small importance. The Catalogue has swollen far beyond the proportions anticipated when, some years ago, I took the matter in hand; and my chief sources of information now appear dry.

THREE TOWNS BIBLIOTHECA.

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————— Exterior and Interior Views. C. Moat, Ply.
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With Spider Webs, I Agues cure
With Toads Calcin'd, Spells, Adders Bone
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Diseases Venom I defy
And live by what my Patients die.

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† Northcote (James), R.A. Northcote, pinx.; Meyer, eng. 1815.

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———— in his eighty-second year. A. Wivell, pinx.;
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trait was taken in 1713, when the subject was in his fourth
year. 1819.

———— J. Northcote, pinx.; S. W. Reynolds, eng. 1785.

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"Oh, think no more than hope can cheer!" (song). Mrs. Jacobson; words by the late William Jacobson.

Pli[y]mouth (View by), with Plimstoke in prospect. Hollar. 1676.

———— (View by). Hollar. 1676(?)

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———— (Near).

———— from Saltram. H. Worsley.

———— coloured; a sheet with women and sailors. 1805.

———— Rowe, Exeter. 1828.

———— from Greenbank. P. Mitchell, del. E. and H. L. Fry, Plymouth.

———— looking towards Bovisand. P. Mitchell, del. E. and H. L. Fry, Plymouth.

———— looking towards Mount Edgecumbe. P. Mitchell, del. E. and H. L. Fry, Plymouth.

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- W. Wood, Devonport.
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- Rest (sacred song). Mrs. Jacobson.
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-
- The entrance of, and Hamoaze at low water. W. Hay, del.; J. Pye, eng. Hay, Plymouth. 1780.
-
- and Mount Edgecumbe from Deadman's Bay. C. Gillham.
-
- and Drake's Island from Cremill (two views). Sartorius, del.; Harding, lith. Byers and Saunders, Devonport.

Sound (Plymouth), Breakwater, and Mount Edgcumbe, from Mutton Cove. Sartorius, del.; Harding, lith. Byers and Saunders, Devonport.

————— and Breakwater from Hill Park Crescent. J. and H. Smith, Plymouth.

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Series of four coloured Drawings illustrative of the same visit :—
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- [Ann Evans, the apprentice, confessed the murder, which the nurse, Elizabeth Cary, denied. One was hanged, the other burnt, at Plymouth, March 30th, 1676. In another account, entitled "The Poysoners Rewarded," the nurse is called Philippa.]

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- Second edition, with additions. London. 1816.
- [The letters relate to family disputes.]
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- Life (The) of Dr. Goodwin. R. Hawker. 1838.
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- The Reply of Charles Vaghan to the Answer of Philip Francis to the exceptions of the said Charles Vaghan to his account.
- The Misdemeanours of a Traytor and Treasurer discovered, in the answer of Philip Francis, merchant, late Major of the borough of Plimouth, in the county of Devon, to the false and scandalous Aspersions and Accusations of Charles Vaghan.
- A further Answer of the said Philip to the said Vaghan.
- A further Answer of the said Philip to the Reply of the said Charles Vaghan.
- [The papers refer to some pearls, the property of Lord Marlborough, which had been sequestered.]

SIEGE TRACTS*—

A Letter from Exeter . . . showing how Col. Ruthen sallied out of Plymouth, and hath taken Sir Edward Fortescue, Sir Edward Seymore, and divers other gentlemen of note prisoners. 1642.

Exceeding joyfull Newes from Plymouth and Devenshire, sent in a Letter from the Deputy-Lieutenant to the House of Commons, Dec. 8 . . . also a full relation of the besieging of Plymouth by the Lord Grandison, the L. Digby, and Commissarie Wilmot, with 9,000 men, and how they were beaten off by the parliament forces that were within the town, killing about 850, the Lord Digbie being shot through the shoulder with a musquet bullet. Dec. 10, 1642.

A true Relation of the present State of Cornwall, with the true Proceedings of Capt. Pym, who is with his forces at Plimouth, hindering the passage of the Lord Mohun. Dec. 10, 1642.

A true and perfect Relation of a great and happy Victory obtained by the Parliaments forces, under the command of Col. Ruthin, over Sir Ralph Hopton and his Cavaliers near Plymmouth. Dec., 1642.

Remarkable Passages newly received of the great Overthrow of Sir Ralph Hopton. Dec. 14, 1642.

A true Relation of the late Victory obtained by the Right Honble. the Earl of Stamford at Plimmouth and Modbury, the 21st of Feb., 1643.

A true and perfect Relation of the Passages in Devonshire this week. Feb., 1643.

Joyful Newes from Plimouth, being an exact Account of a great Victory obtained against the Cornish Cavaliers. 1643.

The Protestation taken by the Commissioners of Cornwall and Devon at Stonehouse, neare Plymouth, on the 5th of March, 1642 [1643].

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Ordinance passed, 15th November, 1643, for a tenth part more of Customs and Subsidies for the Defence of the towne and fort of Plymouth, the island of St. Nicholas, and the townes of Poole and Lyme.

A Letter from Plymouth concerning the late Occurrences and Affaires of that place. Nov. 4, 1643.

* The dates here given are according to the modern computation.

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- A true Narrative of the most observable Passages in and at the late Siege of Plymouth from the 15th of Sept., 1643, till the 25th Dec. following. John White; map by Hollar. Jan. 1644.
- Good Newes from Plymouth, being a true relation of the death of Sir Ralph Hopton and many of his commanders, who, by treachery, sought to surprise the good towne of Plymouth. Feb. 20, 1644.
- A continuation of the Narrative of the most observable Passages in and about Plymouth from Jan. 26, 1643 [1644] till this present. April 25, 1644.
- A Relation of the great Victories and Successes of the Garrison of Plymouth since the last account. June, 1644.
- A Defeat given by the Plymmouth Forces to Sir Richard Greenville. 1645.
- A true Relation of a brave Defeat given by the Forces of Plimouth to Skellum Greenville. 1645.
- Sir John Digby's Letter to Col. Kerr, governour of Plymouth, perswading him to betray his Trust . . . with Col. Kerr's Answer. Jan. 2, 1646. [1646.
- Col. Welden's taking of Inch House, neere Plimouth. March 30,
- An authentic Narrative of the Siege of Plymouth. G. Hearder. Hearder, Plymouth. 1843.
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- Strange News from Plymouth, an Account of the Sufferings of a shipwrecked crew. 1684.
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- * Observations on Diving and Diving Machines. J. W. Smith.
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Poultry Pentologue (The). James Furneaux. Lidstone, Plymouth.

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Plymouth China: a History of the Porcelain Works at Plymouth. Ll. Jewitt. *Art Journal*, vol. ii., pp. 169-73. 1863.

Preliminary Medical Education at Provincial Hospitals. W. P. Swain. Brendon and Son, Plymouth. 1871.

Reply (A) to a Pamphlet intituled a Brief Enquiry into the Present Condition of the Navy of Great Britain. Sold by Haydon, Plymouth. 1804.

[Gives some interesting particulars concerning the Dockyard.]

* Reflections on Banks. Danmoniensis. [W. Burt.] 1810.

Review of the Mercantile, Trading, and Manufacturing State,

- Interests, and Capabilities of the Port of Plymouth. William Burt. Nettletons, Plymouth. 1816.
- Report (A) on the Alteration and Improvement of the Turnpike Road between Exeter and Plymouth, through Chudleigh and Ashburton. James Green. Nettleton, Plymouth. 1819.
- Results of Experiments Relating to the Comparative Means of Defence afforded by Ships-of-War having Square and Curvilinear Sterns. George Harvey. *Journal Science and Art*, vol. xviii., p. 201. 1824.
- Reflections on the State of British Naval Construction in 1831. H. Chatfield. Hearle, Devonport. 1832.
- Reflections on the Present State of the Theory of Naval Architecture. H. Chatfield. Bartlett, Plymouth. 1836.
- Report on the Practicability of Forming a Harbour at the Mouth of the Loe Pool. J. M. Rendel. J. B. Rowe, Plymouth. 1837.
- Remarks on the Stowage and Sailing of Ships and Vessels. John Pearse. *Journal Science and Art*, vol. xxvi., p. 320.
- Remarks on Capt. Pakenham's Temporary Rudder. J. Pearse. *Journal Science and Art*, vol. xxvii., p. 75.
- Records of the School of Mines applied to the Arts. W. Hunt. 1853.
- Remarks on the Cost of Light from Magnesium as compared with other Sources of Illumination, with an Account of some New Inflammable Explosive Compounds of Magnesium. J. N. Header. Devon. Ass. Trans. 1865.

RAILROADS—

- Substance of a Statement made to the Chamber of Commerce, Plymouth, 3rd November, 1818, concerning the Formation of a Railroad from the Forest of Dartmoor to the Plymouth Lime Quarries. Sir T. Tyrwhitt. Congdon and Hearle, Dock.
- Report of a Proposed Line of Railway from Plymouth, Devonport, and Stonehouse to Exeter, over the Forest of Dartmoor, with a Branch to Tavistock. J. M. Rendel. Stevens, Plymouth. 1840.
- Remarks on the Projected Plymouth and Exeter Railway, by a Capitalist. 1843.
- An Address to the Proprietors of the South Devon Railway. 1848.

An Address to the Proprietors of the South Devon Railway by the Chairman. Lidstone, Plymouth. 1848.

Cornwall Railway—Extracts from the Evidence given before the Committee of the House of Commons touching the Passage of Hamoaze. 1845.

Some Considerations touching the Debate, &c., concerning the Newfoundland Trade. J. Yonge. 1670.

System of Dressing for Roadways. J. M. Rendel. Read Plymouth Meet. Brit. Ass. 1841.

* Sailing Directions for the Port of Plymouth. Stevens, Plymouth. Third edition. 1854.

* Stowage (On the) of Ships and Cargoes. R. W. Stevens. Stevens, Plymouth. 1858.

Steam Fleet Tactics. G. Biddlecombe.

Secretary's Aid (The). F. H. Chown. Heydon and Clarke, Devonport. 1869.

Truscott's Plan for Reefing Paddle-wheels. H. Chatfield. Read Plymouth Meet. Brit. Ass. 1841.

Tables to Facilitate the Practice of Great Circle Sailing. J. T. Towson, London. 1848.

Tables for the Reduction of ex-Meridian Altitudes. J. T. Towson. 1849.

Theory and Practice of Great Circle Sailing under one General Rule. Rev. P. Robertson. Lidstone, Plymouth. 1855.

Trout Flies of Devon and Cornwall, and when and how to use them. G. Soltau.

Useful Card for the Artillery of the Reserve Forces. E. Palmer. 1872.

Words of Advice to a Young Naval Officer. E. A. Inglefield. James and James, Plymouth. 1864.

PERIODICAL PUBLICATIONS.

ALMANACS—

Three Towns: book and sheet [continues]. W. Wood, Devonport. 1848-72.

Plymouth [continues]. J. Smith, Plymouth. 1859-72.

Flintoff's. Flintoff, Plymouth. 1844-45.

Baron's. Plymouth. 1844-45.

- Volunteers and Family. H. V. Harris, Devonport. 1861.
 Household. H. V. Harris, Devonport. 1861.
 Photographic. Dupréz, Plymouth. 1870.
 West of England Illustrated [continues]. Doidge, Plymouth.
 1868-72.
 Western Illustrated [continues]. Creber, Devonport. 1865-72.
-
- Army and Navy News: monthly. Heydon, Devonport. 1870.
 [First number Jan., 1870. Few numbers only issued.]
 Christian Witness: quarterly. [Edited by Rev. H. Borlase.] Ply-
 mouth. 1834.
 Clack: monthly magazine. Plymouth. 1865. [First number Jan.
 Five numbers issued.]
 Devonport Advertiser: weekly newspaper. Devonport. 1826.
 [Two numbers only issued.]
 Devon and Cornwall Literary Register; or, Repository of Science,
 Arts, and Literature. Roberts, Devonport. 1828.
 Devonport Independent: weekly newspaper. [Has been published
 bi-weekly—continues.] Devonport. 1833-72.
 Devon and Cornwall Magazine: monthly. [First number May,
 1862. Two only issued.] Burt, Plymouth.
 Devon and Cornwall Temperance Journal: monthly. Organ Devon
 and Cornwall Temperance League. [First number Jan., 1868
 —continues.] Plymouth. 1868-72.
 Devon and Cornwall Masonic Calendar. W. J. Hughan. J. R. H.
 Spry, Devonport. 1865-1868.
 Directory of the Provincial Grand Lodge of Cornwall. W. J.
 Hughan. 1870-1.
 Devon and Cornwall Masonic Register (The). Edited by Leonard
 Westcott. Westcott, Plymouth. [Continues.] 1870-72.
 Home News. Paper published for despatch by the mail steamers
 sailing from the port for the colonies. Edward Aitken Davies,
 Plymouth. 1864-68. [Continued in another form.]
 Illustrated Weekly News, and Three Towns Family Paper: weekly.
 [First number July, 1855. Lasted few weeks only.] Devon-
 port, 1855.
 Journal of Sacred Literature (The). [Edited by J. Kitto.] 1848.
 Magnet (The): magazine. Plymouth. 1822-23.
 Morice Town Gazette: weekly. [Lasted few months only.]
 1860.(?)

Mannamead School Magazine: monthly. [Continues.] Plymouth. 1870-2.

Plymouth Weekly Journal; or General Post. [Lasted barely two years.] E. Kent, Plymouth. 1721-2.

Plymouth Magazine. 1770.

Plymouth Magazine; or, Devonshire Miscellany. Collins, Plymouth. 1772.

Plymouth Chronicle: weekly newspaper. [Established 1782, dropped for 26 years, re-established 1808, dropped finally 1818.] Plymouth. 1782-1818.

Plymouth Literary Magazine. [Six numbers only issued.] Rowe, Plymouth. 1814.

Plymouth Journal: magazine. Plymouth. 1815.

Plymouth and Devonport Weekly Journal. [Commenced Aug. 19th, 1819; merged into Western Daily Mercury in 1863.] Latimer, Plymouth. 1819-63.

Plymouth Gazette: weekly newspaper. [Aug. 1819 to Oct. 1820.] Plymouth. 1819-20.

Plymouth, Devonport, and Stonehouse Herald. [Established as a weekly newspaper in 1820; was issued as a daily for three months in 1868-9; now appears occasionally.] Plymouth. 1820-72.

Plymouth Mechanics' Magazine. Lamacraft, Plymouth. 1826.(?) [Contained reports of Lectures at Plymouth Mechanics' Institute].

Philo Danmonium: monthly. [Six numbers issued.] Curtis, Plymouth. 1830.

Plymouth, Devonport, and Stonehouse Advertiser: weekly newspaper. [March, 1831, to March, 1832.] Plymouth. 1831-2.

Plymouth, Devonport, and Stonehouse News: weekly newspaper. [Sept., 1836, to April, 1837.] 1836-7.

Plymouth Times: weekly newspaper. [Established Feb., 1842.] Plymouth. 1842-1857.

Plymouth Health of Towns Advocate: monthly. [Six numbers issued. Edited by Rev. W. J. Odgers.] Plymouth. 1847.

Plymouth, Devonport, and Stonehouse Mail. [1st No. Dec. 14th, 1852, amalgamated with Western Morning News, July, 1862; was for a short time published thrice a week, for a longer period twice.] Plymouth. 1852-62.

Plymouth and Devonport Penny Magazine. Keys, Plymouth. 1855.

- Plymouth and Devonport Penny Magazine and Household Educator. Bennett, Plymouth. 1855.
- Plymouth (The) and Devonport Monthly Magazine. [Two numbers only issued.] Davis, Plymouth. 1857.
- Royal Dock—afterwards Devonport and Plymouth—Telegraph: weekly newspaper. [Established 1808, amalgamated with Western Weekly News, June, 1863.] Devonport. 1808–1863.
- Reflector (The): weekly magazine. [Continued twelve months.] C. Wood, Devonport. 1839–40.
- Royal Naval, Military, and Civil Service Directory. Harris, Devonport. 1865.
- Selector (The). [Three numbers only issued.] Plymouth. 1809.
- South Devon Monthly Museum: magazine. [7 vols.] Hearder, Plymouth. 1833–6.
- South Devon Locomotive; or, Plymouth, Devonport, and Stonehouse Advertiser. Flintoff, Plymouth. 1844.
- South-Western Standard: weekly newspaper. [Sept. to Nov., 1844.] Plymouth. 1844.
- South Devon Literary Chronicle: magazine. [Commenced in 1846 weekly, continued through part of 1847 monthly.] Plymouth. 1846–7. [1853.]
- Sunday Reading for Christian Families. [Conducted by Dr. Kitto.]
- Theatrical Spy. Bond, Plymouth. 1829.(?)
- Temperance Intelligencer: magazine. [Apparently only one number issued.] Hook, Plymouth. 1861.
- Tamar News (The): weekly newspaper. [Discontinued.] J. R. H. Spry, Devonport. 1871–2.
- Three Towns' Methodist Messenger (The): monthly. [Commenced 1871—continues.] Trythall, Plymouth. 1871–2.
- Thunderbolt (The). By Gemini. [First and only monthly part issued May, 1871; then became weekly—continues.] Keast, Plymouth. 1871–2.
- Union (The): weekly magazine. [Issued a few months only.] Aunger, Devonport. 1851–2.
- West Devon Standard: weekly newspaper. Devonport. 1835–6.
- West of England Conservative: weekly newspaper [Established in 1836; afterwards renamed the Courier; finally amalgamated with Plymouth Mail.] Devonport. 1836–1853.
- West of England Magazine: monthly. [First number Sept., 1838.] Harris, Devonport. 1838.

- West of England Magazine. [Edited by the Rev. W. Beal.]
Plymouth. 1840-47.
- Western Temperance Advocate. Hunt, Devonport. 1841.
- Western Morning News: daily newspaper. [Established January, 1860—continues.] Hawkings, Plymouth. 1860-72.
- Western Weekly News: weekly newspaper. [Continues.] Hawkings, Plymouth. 1860-72.
- Western Daily Mercury: daily newspaper. [Established 1860—continues.] Latimer, Plymouth. 1860-72.
- Western Daily Standard: daily newspaper. [Established 1869; lasted twelve months.] Plymouth. 1869-70.
- Western Standard: weekly newspaper. [Established 1870; lasted few weeks only.] Plymouth, 1870.
- Western Chronicle of Current Events: monthly. [Two numbers only issued, Jan. and Feb., 1869.] Brendon and Son, Plymouth. 1869.
- Western Critic: weekly. [Seven numbers only issued.] Brendon and Son, Plymouth. 1871.
- West Country Lantern (The): weekly. [Commenced June, 1871; continues.] Barnecutt, Plymouth. 1871-2.

POETRY AND GENERAL LITERATURE.

- Address (An) on the Opening of the Plymouth Mechanics' Institute. Hampden Wotton. Luke, Plymouth. 1851.
- Account (An) of Wolves Nurturing Children in their Dens. By an Indian Official [W. H. Sleman]. Thomas, Plymouth. 1852.
- Albert Edward, Prince of Wales: a Poem on the alarming Illness and unexpected Recovery of his Royal Highness. Hampden Wotton. Cann, Plymouth. 1872.
- * Bickleigh Vale, and other Poems. Nathaniel Howard, York. 1804. W. Wood, Devonport. 1856.
- Beggar and his Benefactor (The), in which is introduced a Description of Plymouth and its Environs. Miss Squire. 1809.
- Britain's Bulwarks; or, The British Seaman. G. Woodley. Congdon, Plymouth Dock. 1811.
- Breakwater (The): a Poem. Robert Taylor, Plymstock.
- * Banks of Tamar (The). N. T. Carrington. 1820.
- Bobby Poldue and his wife Sally at the Great Exhibition. [H. J. Daniel.] W. Wood, Devonport.

- Budget (A) of Cornish Poems. W. Wood, Devonport.
- Blossoms of Poesy. George Linnæus Banks. 1841.
- Cursory Observations on the Poems attributed to T. Rowley. Jacob Bryant. 1782.
- Castle (The) of Wolfenbach: a Novel. Mrs. Parsons. 1793.
- Country Parson (The). J. Bidlake. 1797.
- Caswallon, King of Britain: a Tragedy. E. Gandy. 1826.
- Christianity: a Poem. [By the late William Burt; edited by his nephew, Major Burt.] 1836.
- Castalian Hours. Sophie Dixon.
- Connection (The) of Poetry with History: a Lecture. [Sir] Roundell Palmer. Lidstone, Plymouth. 1852.
- Carolingian Romance [in Oxford Essays]. R. J. King. 1856.
- Clock Tower (The), with Fountain, in George Street, Plymouth. Hampden Wotton. Plymouth.
- Cornish Thalia (The). H. J. Daniel. W. Wood, Devonport.
- Companion to Cornish Thalia. H. J. Daniel. W. Wood, Devonport.
- Cornish Ballads and other Poems. R. S. Hawker. 1869.
- Child's Influence; or, Kathleen and her Great Uncle. Lisa Lockyer. 1871.
- Cruise (The) of Squadron of Observation: a Poem. J. Johnston. J. R. H. Spry, Devonport.
- [Children's Story Books and School Books. Large numbers of cheap works of this class, with Song Books, have been published over a period of many years; first by Mr. Elias Keys, Devonport, now by his sons, Messrs. Samuel and John Keys, of the same town.] [1778.
- Dissertation on the Language of Eastern Nations. Jacob Bryant.
- Dissertation (A) concerning the War of Troy and the Expedition of the Grecians as described by Homer, showing that no such Expedition was ever undertaken, and that no such City of Phrygia existed. Jacob Bryant. 1796.
- Dock Literary and Philosophical Society [rules, &c.]. Gray, Stonehouse. 1816.
- Discourse delivered at the Opening of the Plymouth Athenæum. Rev. R. Lampen. Plymouth. 1819.
- Devon: a Poem. J. Gompertz. Curtis, Plymouth. 1825.
- *Dartmoor: a Poem. N. T. Carrington. [Two editions in one year.] 1826.

- *Devonshire Courtship. Mrs. Palmer [sister to Sir Joshua Reynolds, edited by her daughter, Mrs. Gwatkin]. 1839. W. Wood, Devonport. 1869.
- Dartmoor (Le); ou, Les Deux Sœurs. Scenes de la vie Anglaise. Par Jules Poulain. Paris. 1852.
[The scene is laid in and around Plymouth, and the names of real personages are introduced.]
- Days in Dreamland. G. A. D. Brucks. 1853.
- Dolly Pentreath. J. Trenhaile. W. Wood, Devonport. 1854.
- Daisies in the Grass: a Collection of Songs and Poems. Mr. and Mrs. George Linnæus Banks. 1865.
- Diver's Daughter (The). M. A. Paull. London and Glasgow. 1872.
- Excercitationes in Euripidam. S. Musgrave. 1762.
- Euripides. Edited by S. Musgrave. 1778.
- Elegy (An) on William Shepherd, Esq., of Plymouth. 1784.
- Elegy (An). Supposed to be written on revisiting a former residence. J. Bidlake. 1788.
- Errors in Education: a Novel. Mrs. Parsons. 1791.
- Expostulation (An). Addressed to the *British Critic*. Jacob Bryant. 1799.
- Eugenio; or, The Precepts of Prudentius: a Moral Tale. J. Bidlake. 1799.
- Essays and Letters by J. Kitto, with a short Memoir. [His first publication.] Nettleton, Plymouth. 1825.
- Ecclesia. R. S. Hawker. 1840.
- Echoes from Old Cornwall. R. S. Hawker. 1846.
- Eastern Habitations. J. Kitto. 1852.
- Eddystone Lighthouse (The): a Poem.
——— F. P. Balkwill. Keys, Plymouth. 1858.
- Edwin and Marguerite: a Legend; and other Poems. W. D. Tatton. Heydon, Devonport. 1860.
- Euphuism. Dr. R. F. Weymouth. Trans. Phil. Soc. 1871.
- Friendship in Death, in Letters from the Dead to the Living. Mrs. Elizabeth Rowe. Plymouth. 1814.
- *Fancy's Wreath: Poems. J. L. Stevens. Second edition. Creagh and Curtis, Plymouth. 1821.
- Flora Poetica; or, Poetry on Flowers. Selected and arranged by T. Willcocks, with Plates by G. Banks. Granville, Devonport. 1835.
- Fall of Debir: a Poem. H. Trays. Latimer, Plymouth. 1855.

- Footprints of former Men in far Cornwall. R. S. Hawker. 1870.
- Farmer Trusty's Letters. Sir Richard Hill. Bennett, Plymouth.
- Flowers and their Emblems. By a Lily of the Field. [Major Trist.] W. H. Luke, Plymouth. 1872.
- Granny's Story Box. [Miss C. Sellon.] Brendon, Plymouth.
- Great Mine Conference (A). H. J. Daniel. W. Wood, Devonport.
- History of Mrs. Meredith (The): a Novel. Mrs. Parsons. 1790.
- Hospital (The): a Poem. — Wilde. 1809.
- Himyaric Inscriptions of Hisn Ghorab. Translated into English, and elucidated. George Hunt. Hearder and Brewer, Plymouth. 1847.
- Henry II.: Drama. G. Wightwick. Plymouth. 1851.
- Heroes of the Day: Franklin and Garibaldi. W. S. L. Szyrma. Latimer, Plymouth.
- Hints on the Political Past and Future. Diogenes, junr. Lidstone, Plymouth. 1852.
- Humorous Cornish Legends. H. J. Daniel. W. Wood, Devonport.
- Hobble (A) through the Channel Islands in 1858. E. T. Gastineau. Lidstone, Plymouth. 1860.
- Hoe (The): an Ode by Blue Butterfly. Keys, Plymouth. 1868.
- Inferno (The): Translated by Nathaniel Howard. 1807.
- Infancy: a Poem. Wilde. 1814.
- Iskander: a Novel. [S. Rowe.] 1824.(?)
- Infidel (The): a Poem written in Defence of Revealed Religion. Edward Cock. 1844.
- Influence of Circumstances in Determining the Character of Man. Prize Essay. C. E. Jones. C. Wood, Devonport. 1848.
- It's all for the Best. W. Hughes. [Reprinted from *Blackwood*.] Lidstone, Plymouth. 1852.
- Idylls and Rhymes. Mortimer Collins. Lidstone, Plymouth. 1859.
- Isaac and Rebecca. J. Colmer.
- King Arthur and the Arthurian Legends. W. Blake Odgers. 1872.
- Legend of St. Morwenna (A). R. S. Hawker. 1850.
- Lamentation of Mr. Page's Wife, of Plimouth, who, being enforced to wed against her will, did consent to his murder for the love of George Strangwidge, for which fact they suffered death at Barnstable, in Devon. The tune is "Fortune my Foe."
- Lamentation of George Strangwidge, who, for consenting to the death of Mr. Page, of Plimouth, suffered death at Barnstable.

The complaint of Mrs. Page for causing her husband to be murdered for the love of George Strangwidge, who were executed together.

[These are three undated broadsheets in the Roxburghe Collection. There was a tragedy on the subject by Jonson and Dekker, but it is now lost.]

A True Discourse of a Cruel and Inhumaine Murder committed upon Mr. Padge, of Plymouth, the 11th day of February last, 1591, by the consent of his own wife and sundry other. 1591. [Reprinted Shakspere Society Papers, vol. 2; also in *South Devon Chronicle*, vol. i., pp. 373-4.]

Looking-glass for Children (A). Seasonable Lessons to Youth. Elegies on Departed Friends. Abraham Cheere. 1673. [Looking-glass reprinted in 1708.]

Langdon: one of the seats of Shilston Calmady, Esq, situate near Plymouth. [A Poetical Description.] Circa 1710.

Lucy: a Novel. Mrs. Parsons. 1794.

Lorenzo: the Outcast Son. E. Gandy.

Love and Gratitude. [Translations.] Mrs. Parsons. 1806.

Lines written for the Third Annual Commemoration of Laying the Foundation-stone of the Plymouth Athenæum. T. Byrth. Rowe, Plymouth. 1821.

Lyrical Ballads: from the German of Schiller. Ann Gibbons. Byers, Devonport. 1838.

Literature and Literary Men of Plymouth: a Lecture. Alfred Rooker. Nettleton, Plymouth. 1845.

*Lenten Thoughts, and other Poems. James Furneaux. Harris, Devonport. 1846.

Lyra Devonensis. H. M. Jackson and G. Brucks. 1850.(?)

Lucy Ashcroft. W. B. Flower. Lidstone, Plymouth. 1853.

Letters from the Peninsula. E. S. Wilkey. Keys, Plymouth. 1856.

Lovel: a Tale of Olden Time. Sophie Dixon. [Posthumous.] 1859.

Love and Labour. Kate Pyer. 1860.

Leaves from Sherwood, &c. Wm. Crossing. Trythall, Plymouth. 1868.

List of Books written in or relating to the Dialects of Devon. J. Shelly. Plym. Inst. Trans. 1868.

Letter R (On the). R. F. Weymouth. Plym. Inst. Trans.

- Lines on, and Description of, St. Dominick Church. James Grills. W. Wood, Devonport. 1871.
- Life and Adventures of Mr. Peter Quill, a Country Attorney. Benjamin Boscawen. [Benjamin Boyes Fowler.] 1859.
- Mysterious Warning (The): a Novel. Mrs. Parsons. 1796.
- Mount Edgcumbe: a Descriptive Poem. G. Woodley. 1804.
- Mount Edgcumbe: a Poem. Cyrus Redding. 1811.
- Moods and Tenses. By One of Us. [Ed. Gandy.] 1827.
- Mount's Bay: a Poem. W. Hunt. Penzance. 1829.
- *My Native Village. N. T. Carrington. 1830.
- Mary Stuart: a Tragedy; from the German of Schiller. Anne Gibbons. Byers, Devonport. 1838.
- Moral and Sacred Poetry: Collected by the Revds. T. Willcocks and T. Horton. Byers, Devonport.
- Mayor-choosing day at Plymouth; or, The Lambertine of the Angels. R. W. S. Baron. Plymouth. 1824.
- Gnothi Seanton. The Holy Cullendar superseded by the Holy Calendar. A Church Almanac, &c. R. W. S. Baron. Arless, Plymouth. 1844. Bartlett, Plymouth. 1845.
- Mayors and Mayoralties; or, The Annals of the Borough [of Plymouth]. By the Poet Corporate. R. W. S. Baron. Arless, Plymouth. 1846.
- Our Charter Week. R. W. S. Baron. Arless, Plymouth.
- Our Art Week. R. W. S. Baron. Arless, Plymouth.
- Municipal Reform; or, The Old Guiled All and the New Gilled All. R. W. S. Baron. Arless, Plymouth.
- Miscellaneous Rhymes. By S. E. Lynch, a blind orphan. Bowering, Plymouth. 1870.
- My Log. William Haynes. Clark, Devonport. 1870.
- Mirth for One and All. H. J. Daniel. W. Wood, Devonport.
- Mirth for Long Evenings. H. J. Daniel. W. Wood, Devonport.
- Marquis and Merchant. Mortimer Collins.
- Mary Anne's Experiences. H. J. Daniel. W. Wood, Devonport.
- Mary Anne's Career, and Cousin Jack's Adventures. H. J. Daniel. W. Wood, Devonport.
- Midnight of the 26th Feb., 1871. Birmingham, Plymouth.
- Midnight of the 14th Dec., 1871: a Vision of Mercy. Birmingham, Plymouth.
- My Parish, and what happened in it. M. A. Paull. 1872.
- *New System (A) of Ancient Mythology. Jacob Bryant. [Third Edition.] 1807.

- A Further Illustration of an Analysis of Ancient Mythology in Answer to some Foreign Observations by J. Richardson. J. Bryant. 1778.
- New Nursery Rhymes. J. Trenhaile. Heydon, Devonport. 1846.
- New Budget of Cornish Poems. H. J. Daniel. W. Wood, Devonport.
- Observations and Enquiries relating to various parts of Ancient History, containing Dissertations on the word Euroclydon and the Island Melita, with an Account of Egypt in its most Early State, and of the Shepherd Kings. Jacob Bryant. 1767.
- Observations on the Poems of Thomas Rowley, or rather of T. Chatterton. Jacob Bryant. 1781.
- Cursory Observations upon the Poems attributed to Thomas Rowley. Jacob Bryant. 1782.
- Observations upon a Treatise entitled, A Description of the Plain of Troy, by M. Le Chevalier. Jacob Bryant. 1795.
- On the Ruins of an Abbey. Composed and Recited by Robert Lampen, in the Guildhall, at the Grammar School Meeting, October 16th, 1804. Haydon, Plymouth. 1804.
- One Hundred Fables, Original and Select. James Northcote. 1828.
- *Ditto, Second Series. [New edition 1857.] J. Northcote. 1833.
- Ocean (The), and other Poems. J. Trenhaile. Byers, Devonport. 1837.
- Olive, Vine, and Palm. J. Kitto. 1848.
- Plymouth Tragedy (The); or, Fair Susan's Overthrow.
- Plymouth Tragedy (The); being a Full and Particular Account of the Wonderful Appearing of Madame E. Johnson at Plymouth. [Both the above are broadsheet Ballads, in the Roxburghe Collection.]
- Poems by the Rev. J. Bidlake. Plymouth. 1794.
- Poetical Works of the Rev. J. Bidlake. 1804.
- Youth. J. Bidlake. 1802.
- Year (The). J. Bidlake. 1813.
- Poems by the late Mr. and Mrs. Johns, of Plymouth. Plymouth. 1800.(?)
- Poems by the Rev. Henry Moore. Edited by Dr. Aikin. 1803.
- Portugal Delivered. G. Woodley. Southwood, Plymouth. 1812.
- Piece (A) of Old Hat. —. Holman. Hoxland, Plymouth Dock.
- Pickings from my Portfolio. H. J. Daniel. W. Wood, Devonport.
- *Popular Romances of the West of England; or, The Drolls of Old Cornwall. R. Hunt. 1865.

- Progress of Truth (The), and other Poems. J. Colmer. Plymouth. 1818.
- Poetic Tendrils. By Reuben. [R. S. Hawker.] 1823.
- Pompeii: Oxford Prize Poem. R. S. Hawker. 1827.
- Persian Poetry (On). Nathaniel Howard. Plymouth. 1830.
[Reprinted from Plym. Inst. Trans., vol. i.]
- Poems written by a Father to his Children; with Extracts from the
Diary of a Pedestrian. H. J. Johns. Byers, Devonport. 1832.
- Poems by the Rev. R. S. Hawker. 1836.
- Plymouth Election: a Dramatic Dialogue. Manicom, Devonport.
- Professional Men and Men of Profession. By a Looker-on.
[Published in Numbers.] Lucas, Plymouth. 1839.
- Poetical Extravaganza on the late Charitable Fêtes at Mount
Edgcumbe, Saltram, &c. Header and Brewer, Plymouth. 1846.
- People of Persia (The). J. Kitto. 1850. [1870.]
- Plymouth in the Pillory: a Satire by Diogenes. Widger, Plymouth.
- Princess Clarice (The). Mortimer Collins. 1872.
- Quest of the San Graal (The). R. S. Hawker. 1864.
- Reply (A) to the Chevalier d'Eon's Letter. S. Musgrave. Ply-
mouth. 1769.
- Rambles in London. By Amicus Patriæ. [W. Burt.] 1810.
- Records of the Western Shore. R. S. Hawker. 1832.
- Recreations in Rhyme, by a Cornubian, with a portrait of Dolly
Pentreath. Byers, Devonport. 1834.
- Royal Visit (The) to Loyal Plymouth. Header and Brewer,
Plymouth. 1846.
- Richard I. [Drama.] G. Wightwick. Plymouth. 1848.
- Roger Reefe, the Fisher of Sutton. Header and Brewer, Ply-
mouth. 1849.
- Rustic Poems. George Hamlyn, the Dartmoor Bloomfield. W.
Wood, Devonport.
- Reminiscences of Dr. Hawker in Verse. Cann, Plymouth. 1868.
- Retrospective Poem in Aid of the Blind. Hampden Wotton.
Cann, Plymouth. 1872.
[Refers to sickness of previous winter.]
- Sea Fight (A Brave and Valiant) upon the Coast of Cornwall, 17th
of June last past, between three Turkish pyrats, men-of-warre,
and onely one English merchant ship, of Plymouth, called
the Elizabeth, being not above 200 tons. [Broadsheet, Rox-
burghe Collection.] 1640.

- Sighs for Zion. [Partly by the Rev. A. Cheare.] 1656.
- Sweet William of Plymouth. [Ballad.]
- Sea (The). J. Bidlake. 1796.
- Summer's Eve (The). J. Bidlake. 1800.
- Stranger at Home (The), and other Poems. T. Martin. Johns, Devonport. 1824.
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POLITICS AND SOCIETY.

ACTS OF PARLIAMENT—

- Stating Bounds of the Port of Sutton. 1331.
- Decreeing that all Fish caught in the Waters of Plymouth, Sutton, and Tamar, should be exposed for Sale in Plymouth and Aish [Saltash] only. 1384.
- Regulating the Commerce of the Port. *Temp.* Richard II.
- Incorporating the Borough of Plymouth. 1439.

Relieving the Merchants of Plymouth from the Extortions of the Water Bailiff. 1450.

Restricting Tinnerns from Working to the Damage of Plymouth and other Harbours. 1532.

For the Discharge of the Payment of £29 6s. 8d. to the Prior of the Monastery of SS. Peter and Paul in Plympton, and that the Parsonages of Ugburgh and Blackaveton shall be appropriated to the said Prior and his successors in lieu thereof. 1533.

Concerning the Privileges of the Town of Plymouth. 1534.

For the Preservation of Havens and Ports in the Counties of Devon and Cornwall. 1535.

For the Preservation of the Haven of Plymouth. [The Plymouth Waterworks Act.] 1585.

For enabling the Commissioners of the Navy to purchase premises for a Victualling Establishment at Cremill Point, and to supply the same with water. 1825.

For enlarging the powers of the Corporation of Plymouth with regard to the Water Property. 1867.

For bringing Water into the Town of Stonehouse. 1593.

Incorporating the Stonehouse Waterworks' Commissioners. 1851.

Constituting the Parish of Charles, Plymouth. 1640.

For better enabling the Master, Wardens, and Assistants of the Trinity House to rebuild the Eddystone Lighthouse. 1705.

For explaining the same. 1709.

For Vesting the Estate and Interest of Robert Cheatham in the Duties of the Eddystone Lighthouse, in trustees, to raise Money to rebuild the same. 1757.

Incorporating the Guardians of the Poor of Plymouth. 1708.

Amending and extending the above. 1758, 1786, 1813.

For the Preservation of the Haven of Plymouth. 1709.

To enable Richard Edgcumbe, Esq., to sell Lands, not exceeding twenty acres, to and for the use of his Majesty, for building a Victualling-office, for the service of the Royal Navy, at Plymouth. 1722.

For Vesting Lands and Tenements contiguous to the Citadel, the property of William Strode, an infant, in trustees, to sell and convey the same for the use of his Majesty King George II.

The case of Richard Strode, Esq., concerning the Lambhay, at Plymouth.

For Repairing the high road leading from Brent Bridge to Gasking Gate, Plymouth—Eastern Turnpike (first). 1758.

[Turnpike Acts are only passed for a limited period, consequently in the case of this and of the other turnpike acts noted there have been several renewals.]

For Fortifying the Town of Dock. 1758, 1766.

For the Tavistock Turnpike. 1762.

For Stonehouse Bridge. 1767, 1830.

For Erection of St. Aubyn Chapel, Devonport. 1769.

For Paving, Lighting, and Watching the Town of Plymouth. 1770, 1772, 1774.

For the Improvement of the Town of Plymouth, in substitution for the above. 1824.

Establishing a body of Commissioners in Plymouth Dock. 1780.

Amending and Extending the above. 1814.

For Constructing a Turnpike Road from Plymouth to Dock. 1784.

For Making and Governing Roads from Plymouth to Dock. 1805.

For establishing a Ferry between Newpassage and Torpoint. 1791.

Incorporating a Water Company at Plymouth Dock. 1792.

For the Erection of St. John's Chapel, Dock. 1797.

For the Embankment of the Laira. 1803.

For enabling the Embankment Company to make a Road from Efford Quay to Plymouth. 1804.

For granting Chelson Bay to Lord Boringdon. 1805.

For the Construction, &c., of Laira Bridge. 1823, 1824, 1836.

Incorporating the Sutton Harbour Company. 1811.

The Sutton Harbour Improvement Company. 1847.

For the Dartmoor Railway. 1819, 1820, 1821.

Plymouth and Dartmoor Railway Company. 1865.

Incorporating Plymouth Oil Gas-light Company. 1823.

Plymouth and Stonehouse Gas-light and Coke Company. 1845.

Devonport Gas Company. 1845, 1854.

For Construction of Modbury and Saltash Turnpikes. 1824.

For Saltash Turnpike. 1834.

For the Tamar Floating Bridge. 1832.

For Devonport Market. 1835.

For the Millbay Pier. 1840.

Incorporating the Great Western Docks Company. 1846.

For regulating Hackney Carriages, Boats, and Wherries in the Three Towns. 1843.

Incorporating South Devon Railway, amending and enlarging powers, 1844, 1846, 1847, 1851, 1854, 1857, 1860, 1865, 1866, 1869, 1871, 1872.

Incorporating Plymouth, Devonport, and Stonehouse Cemetery Company. 1846.

Incorporating Cornwall Railway, amending and enlarging powers. 1846, 1854.

For Constructing Tunnel between the Keyham and Devonport Yards. 1854.

Incorporating, &c., South Devon and Tavistock Railway Company. 1854, 1858.

Incorporating, &c., Launceston and South Devon Railway Company. 1862, 1863, 1866, 1869.

Incorporating, &c. Okehampton, now Devon and Cornwall Railway Company. 1862, 1863, 1864.

Incorporating Plymouth, Devonport, and Stonehouse Street Tramways Company. 1870.

[Nearly all the more recent Acts exist in print; those connected with the government of the respective towns having been several times reprinted.]

Address (An) to the Householders in Plymouth, preparatory to their electing Guardians of the Poor. John Wotton. Haviland and Creagh, Plymouth. 1817.

Address (An) delivered at the First Annual Meeting of the Subscribers to the Plymouth Eye Infirmary, by J. Butter, 6th December, 1821. Rowe, Plymouth. 1821.

Alphabetical List of the Freemen of the Borough of Plymouth. Nettleton, Plymouth. 1831.

Births, Burials, and number of Inhabitants at Stoke Damerel, in Devonshire. Rev. Mr. Barrow. Phil. Trans. vol. xxxix., p. 171.

[Ships not included, at Michaelmas, 1733, there were 3361 people in the Parish. There had been 28 Marriages, 122 Baptisms, and 62 Burials in the year.]

Blessings (The) of True, Religious, and Settled Government. R. Hawker. 1793.

British Army (The) re-organized. J. P. Cox. Luke, Plymouth. 1871.

Bye-laws of the Borough of Plymouth.

Bye-laws of the Plymouth Local Board.

Bye-laws of the Plymouth School Board.

Bye-laws of the Borough of Devonport.

Bye-laws of the Devonport Board of Commissioners.

Bye-laws of the Devonport Local Board.

Bye-laws of the Devonport School Board.

Christian Duty (The) of Relieving the Distresses of Ireland. R. Lampen. Plymouth. 1822.

Correspondence between Lord Ebrington, Mr. Pendarves, and Mr. T. Woollcombe, on the Election at Devonport. Colman, Devonport. 1832.

Case tried at the Guildhall, London, Feb. 18th, 1840. Thomas May, Plaintiff; James Husband, John Rees, and George Haytayne, Defendants. Devonport. 1840.

Charter of the Borough of Devonport, with Notes. J. W. W. Ryder. Devonport. 1837.

Consumption (On), with Remarks on the Vital Statistics of Plymouth. W. Woollcombe.

Church Rate (The): a Dialogue. G. Smith. Keys, Plymouth. 1843.

Court of Persia (The). J. Kitto. 1849.

Court (The) of Final Appeal; or, The Appellate Jurisdiction of the Crown in Ecclesiastical Causes. M. J. Fuller. Birmingham, Plymouth. 1865.

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Copy of Correspondence between Sir J. S. Trelawny, Bart., and the Rev. C. M. Edward-Collins, M.A., relating to his Connection with the National Sunday League, with other Correspondence relating to the Sunday Question. Latimer, Plymouth. 1868.

CONTAGIOUS DISEASES ACTS—

Letter (A) from the Medical Officers of the Royal Albert Hospital. Devonport. August, 1869.

Letter (A) to the Managing Committee of the Royal Albert Hospital, from the Chairman. Pyke, Devonport. September, 1869.

Case (The) of Maria Bennett. Birmingham. 1871.

[Report, with Comments, of an Enquiry into an Alleged Case of Illegal Exercise of the Acts at Plymouth.]

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- Drainage of Towns (The): Lecture. A. Bampton. Lidstone, Plymouth. 1849.
- Duties of British Christians (The) in Relation to the Struggles in America. J. Stock. Heydon, Devonport. 1863.
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Report to the General Board of Health concerning Devonport. Robert Rawlinson. 1854.

- Report on the Devonport Small Pox Epidemic, 1871-2. J. Wilson. Pyke, Devonport. 1872.
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- Speeches (The) of Councillor Bird and John Collier, Esq., at a Public Meeting at the Freemasons' Hall, on the subject of the Conduits, Friday, 4th September, 1829. Plymouth. 1829.
- Speech on moving for leave to bring in a Bill to transfer the Testamentary Jurisdiction of the Ecclesiastical Courts to the Superior Courts of Common Law and to the County Courts. [Sir] R. P. Collier. Latimer, Plymouth.
- Speech on Law Reform (with revisions) delivered by [Sir] R. P. Collier, Esq., at the Mechanics' Institute, Plymouth, on Friday, April 23rd, 1852. Latimer, Plymouth.
- Translator (The) of Pliny's Letter (W. Melmoth) vindicated. Jacob Bryant. 1793.
- Teaching of Mechanics' Institutes (On the). J. P. Mann. Lidstone, Plymouth. 1847. [1849.]
- Treatise (A) on the Law relating to Mines. [Sir] R. P. Collier.
- Thoughts of an old Tory on the Social State of the Country, and on Reform. Earl of Mount Edgcumbe. Cole, Stonehouse. 1859.
- Tax Bills.—Privilege Speech by [Sir] R. P. Collier, Esq., M.P., on the motion of Viscount Palmerston, that the Right of granting Aids and Supplies to the Crown is in the Commons alone . . . in the House of Commons, Friday, 5th July, 1860. Printed for private circulation.
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Unhealthiness of Towns (The); its Causes and Remedies: a Lecture delivered by Lord Ebrington, at the Plymouth Mechanics' Institute, 10th December, 1845. 1846.

Vindiciæ Acti Britannicæ. S. Young.

Word (A) to the Members of Mechanics' Institutes. Richard Burnet. Johns, Devonport. 1826.

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Arrangement (On the) of Ostrideous Insects. W. E. Leach. 1817.

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Address to Dr. Priestley on the Doctrine of Philosophical Necessity.
Jacob Bryant. 1780.

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Whipple. Brendon and Son, Plymouth. 1871.

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- * Sailor Pilgrim (The). R. Hawker. 1806. [1812.
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- Sweet Morsels to Hungry Souls. R. Hawker. 1817.
- Scripture Extracts, accompanied with Notes and Observations. R. Hawker. 1823-36.

- Subject of Sanctification (On the). R. Hawker. 1819.
- Strictures on the Plymouth Antinomians. Joseph Cottle. 1824.
- Reviewer Reviewed (The). Examination of Remarks in *Christian Observer* on the above. J. Babb. 1824.
- Summary of Mosheim's Ecclesiastical History, with continuation. C. T. C. Trelawny. 1839.
- Stories and Lessons on the Collects.
- Stories and Lessons on the Catechism. By the Author of Stories and Lessons on the Collects. Edited by the Rev. W. Jackson. Lidstone, Plymouth. 1855.
- Sunday-Schools: Lecture by the Rev. T. Gibbons, delivered to the Devonport and Stonehouse Church of England Sunday-School Union. 1867.

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- Report of the Enquiry instituted by the Right Rev. the Lord Bishop of Exeter, as Visitor of the Orphan Home established by the Sisters of Mercy at Morice Town, Devonport, into the Truth of certain Statements published in the *Devonport Telegraph*, February 10th, 1849. Plymouth. 1849.
- Report of the above Enquiry. Edited by R. C. Rogers. Devonport. 1849.
- Voice (A) from the Place of St. Morwenna in the Rocky Land, uttered to the Sisters of Mercy at the Tamar Mouth, and to Lydia, their Lady in the Faith. R. S. Hawker. Plymouth. 1849.
- Letter (A) to Miss Sellon. By Henry, Lord Bishop of Exeter. 1852.
- Letter (A) to those of the People who have connected themselves with the Society of the Sisters of Mercy. By the Superior of the Society. Plymouth. 1852.
- Sisters of Mercy, Sisters of Misery; or, Miss Sellon in the Family. W. M. Colles. 1852.
- Miss Sellon and the Sisters of Mercy: an Exposure of the Constitution, Rules, Religious Views, and Practical Working of the Society, obtained through a Sister who has recently seceded. J. Spurrell. 1852.
- Reply to the above. By the Superior of the Society. Lidstone, Plymouth. 1852.
- Rejoinder to the Reply. J. Spurrell. 1852.

Anglo-Catholics (The) of Plymouth: a Few Remarks on Miss Sellon's Reply. H. T. J. Bagge. 1852.

Address (An) delivered to the Members of the Congregation of St. Peter's Church, Plymouth, March 15th, 1852, in consequence of some Statements contained in a Pamphlet written by the Rev. J. Spurrell, A.M. George R. Prynne. Plymouth. 1852.

Letters on the Plymouth Sisters; suggested by the recent Pamphlets and Letters of the Rev. J. Spurrell, Miss Sellon, and the Bishop of Exeter. 1852.

Elucidation of Facts (An) connected with Miss Sellon's Society. By the Mother of Miss Campbell. 1852.

Miss Sellon and the Sisters of Mercy: a Contradiction of the alleged Acts of Cruelty exercised by Miss Sellon, and a Refutation of certain Statements put forth in the Tracts of the Rev. Mr. Spurrell, Miss Campbell, and others; with an Appendix containing an Address from the Sisters of Mercy to the Mother Superior, with her Reply. Com. Sellon. Lidstone, Plymouth. 1852.

Protestant Nunneries, &c.: a Letter to Sir Culling E. Eardley, Bart., concerning Ann Maria Lane, now a Sister of Mercy against her Father's wish in Miss Sellon's Institution at Eldad, Plymouth, with an Introductory Letter, and Sir C. E. Eardley's Reply. J. E. Gladstone. 1853.

* Letter (A) to His Grace the Archbishop of Dublin on the Nature, Government, and Tendency of Miss Sellon's Establishment at Devonport, called the Sisters of Mercy, by the Rev. W. G. Cookesley, with the Archbishop's Reply. 1853-4.

[Other Pamphlets were published not so immediately connected with the locality.]

SERMONS—

Angel's Commission (The) to Peter and John. Preached at the Opening of George Street Chapel, Plymouth, September 24th, 1845. W. Jay. 1845.

Amazon (The). Preached by the Rev. William Blood (one of the Survivors), at St. Andrew, Plymouth, January 18th, 1852. Plymouth. 1852.

Brother Beloved (The). Occasioned by the Death of the Rev. John Guyse Kinsman. W. Spencer. Devonport. 1843.

- Blessedness of the Righteous (The). Preached in St. Paul's, Stonehouse, February 15th, 1852, on the Death of Samuel Derry, Esq., Surgeon. W. Blood. Plymouth. 1852.
- Compassion towards Captives, especially towards our Brethren and Countrymen who are in Miserable Bondage in Barbarie, urged and pressed in Three Sermons on Heb. xiii. 3; preached in Plymouth, October, 1636. — Fitz Geffry. [Dedicated to Cavse, Mayor.] 1637.
- Catholick Charity recommended. J. Glanvill. 1669.
- Character of Paul the Pharisee, and Paul the Christian. I. Worsley. 1809.
- Corpus Christi: being the Substance of a Sermon preached in Charles Church, Plymouth, before the Corpus Christi Society. R. Hawker. Plymouth. 1814.
- Christ the only Foundation: Two Sermons. G. R. Prynne. Lidstone, Plymouth. 1849.
- Christ Walking on the Sea: a Discourse addressed to Emigrants at Plymouth, September 19th, 1852. Simms, Plymouth. 1852.
- Conversion: Preached at the Visitation of the Venerable the Archdeacon of Cornwall, held at Liskeard, 3rd June, 1858. R. Hobhouse. Plymouth. 1858.
- Confirmation Sermons: Preached in August and September, 1858, in St. Andrew's Chapel, Plymouth. J. C. Street. 1858.
- Christian Sympathy: Preached in St. Andrew's Church, February 16th, 1864, the day of the Inauguration of the Royal Albert Wing of the South Devon and East Cornwall Hospital. Archdeacon Downall. Keys, Plymouth. 1864.
- Church and the Drama (The). T. W. Freckelton. 1865.
- * Death's Deliverance and Eliah's Fiery Charut; or, the Holy Man's Tryumph after Death. Delivered in Two Sermons, preached at Plymouth—the one on the 16th, and the other on the 19th, of August, 1631; the former at the funerall of Thomas Sherwill, an eminent and pious Magistrate of that place, and the other at the funerall of Matthias Mills, Bac. of Div., Preacher to the Town of Plymouth. By Alexander Grosse, Pastor of Plympton St. Mary. 1632.
- [Reprinted 1640, when Grosse was Pastor of Bridford St. Mary.]
- Death's Advantage; or, A Sermon preached at the Funerall of the Noble and Valiant Gentleman, Colonell William Gould, High Sheriffe of Devon, by Order of Parliament, late Commander

- of the Fort and Island in Plymouth. By Stephen Midhope, M^r of Arts. 1644. [Dedicated to Sir John Bampffield, then Commanding in Plymouth.]
- Devout Soldier (A). R. Hawker. 1781.
- Duty of Christian Liberality. S. W. Christophers. Smith, Plymouth. 1846.
- Duty (The) of Conforming to the Rubrics. R. H. Fortescue.
- Duty (The) of Obedience to Spiritual Rulers. J. C. Street. 1845.
- Discourses delivered at Christ Church, Devonport. J. K. Applebee. Husband, Devonport. 1865.
- Evidence of a Plenary Inspiration. R. Hawker. 1793.
- End (The) of Time and the Eternity of Man considered. J. Erskine Risk. Birmingham, Plymouth. 1858.
- Everlasting (The) Year of Jubilee. Preached in St. Andrew, Plymouth, by J. E. Risk, 29th June, 1865. 1865.
- Eucharistic Sacrifice (The). G. R. Prynne. 1866.
- Sanctuary and its Ministry (The). A Review of a Sermon recently preached at St. Peter's Church, Plymouth, and since published by request. By P. R. 1866.
- 1866: its Events and their Lessons. C. Wilson. Published by request. Luxmoore, Plymouth. 1867.
- Funeral Sermon for Mr. John Faldo. J. Quick. [1845.
- Field (The) of Rephidim: a Visitation Sermon. R. S. Hawker.
- God's Care over His Little Ones, as shown in the Grace of the Holy Sacrament. C. C. Bartholomew. Lidstone, Plymouth. 1855.
- Hell Opened; or, The Infernal Sin of Murder Punished: being a Relation of the Poysoning of a whole Family in Plymouth, whereof two died in a short time, for which horrid fact the Malefactors were Condemned before Lord Chief Justice North, at Exeter, one to be burnt, the other to be hanged. By J. Q. [J. Quick.] 1676.
- Heal the Sick: a Sermon for the Hospital. C. Wilson. 1869.
- Innocence (The) of Protestant Dissenters cleared and vindicated in reference to the Transactions of '41 and the Death of King Charles I. Preached at Plymouth. J. Enty. 1717.
- Interment (On the) of the late Mrs. Williams, St. Agnes. C. M. Gibson. 1837.
- "I have a Message from God to thee." J. Bartlett. Lidstone, Plymouth. 1853.

- Judgment of God. J. R. Fletcher. Byers, Devonport. 1832.
- Kingdom of Heaven (The), a Marriage Festival; preached in the Parish Church of Okehampton before the Mayor and Corporation on the occasion of the Marriage of the Prince and Princess of Wales. Arch. Downall. James and James, Plymouth. 1863.
- Liberty: a Sermon preached before the Gentlemen Educated in the Free School of Exeter. Zachary Mudge. 1731.
- Lectures on Nonconformity: delivered during the winter of 1822-3. I. Worsley. Plymouth. 1823.
- Lame on his Feet: an Extempore Address by Mrs. Henry Dening, formerly Miss Geraldine Hooper. Luxmoore, Plymouth.
- Lay Responsibility; with especial Reference to the Office of Churchwarden. Preached at the Visitation of the Archdeacon of Cornwall at Liskeard. R. H. Buck. Birmingham, Plymouth.
- Ministers of God to approve themselves in all things. Visitation Sermon. R. Hawker. Plymouth. 1785.
- Ministry (The) of the Atonement. Preached in St. Andrew, Plymouth, by E. F. Coke, Perpetual Curate of Plymstock. 1848.
- Ministerial Watchfulness: a Visitation Sermon, preached at Liskeard, 1st August, 1848. R. Hobhouse. Lidstone, Plymouth. 1848.
- Magistrate (The) God's Minister. J. E. Risk. Keys, Plymouth. 1865.
- Nature (The) and Extent of Church Authority. Preached at the Primary Visitation of George Harrington, Lord Bishop of Exeter. Zachary Mudge. 1748.
- Letter (A) to Mr. Z——y M——ge [Zachary Mudge]: being a Vindication of his late ingenious Sermon. By a Friend to the Hottentots. 1748.
- National Mercies deserve National Thanksgivings. J. Hatchard. 1820.
- Necessity (On the) and Importance of the Acquisition of Knowledge in the Ministerial Office. C. Trelawny Collins [Trelawny]. Rowe, Plymouth. 1828.
- New Year's Remembrance (A). Preached in Charles Church, Plymouth, by H. A. Greaves, 1st Jan., 1865. Luke, Plymouth. 1865.
- Occasional Sermons. J. Bartlett.
- Outward Means of Grace. W. Maskell. 1848.
- Strictures on a Sermon by the Rev. W. Maskell, M.A., on the

- Outward Means of Grace, in a Letter to the Clergy of the Diocese of Exeter. B. St. John. Lidstone, Plymouth. 1849.
- Reply to Mr. Maskell's Sermon, preached at Totnes, 11th Aug., 1848, by M. A., Lincoln College, Oxon.
- Correspondence between the Lord Bishop of Exeter and the Clergy of Plymouth and Neighbourhood respecting the Rev. W. Maskell's Visitation Sermon. Plymouth. 1848.
- Objective Faith. Preached before the English Church Union. C. C. Bartholomew. Hearle, Devonport. 1865.
- Predictions and Promises of God (The) respecting Israel. Preached 22nd June, 1825, in St. Andrew Church, Plymouth, on the Baptism of Mr. Michael Solomon Alexander, late Reader in the Jewish Synagogue, by the Rev. John Hatchard, A.M.; with an Appendix by Mr. Alexander, giving an Account of his Conversion. Plymouth. 1825.
- Peace in God: a Farewell Sermon preached in the Parish of St. Andrew, Plymouth, on Sunday evening, Nov. 27th, 1842. C. A. J. Smith. 1843.
- Parochial Sermons. J. Cole. Lidstone, Plymouth.
- Pure and Undeified Religion. M. Hobart Seymour. Plymouth. 1856.
- Perpetual Indwelling of the Holy Ghost in the Church. Preached at Tavistock at the Second Visitation of the Ven. Archdeacon Downall. Morris J. Fuller. Lidstone, Plymouth. 1860.
- "Peace be unto You." Joseph Wood. 1862.
- Priesthood now to be Exercised (The), and the Sacrifice to be Offered, in the Christian Church, with the Altar on which it is to be Presented; with Appendix. R. Gardner. Heydon, Devonport. 1866.
- Repentance. Eugene F. Tracey. 1862.
- Saints Losse (The) and Lamentation. G. Hughes. 1672.
- Some Discourses, Sermons, and Reveries. J. Glanvill. 1681.
- Sermon preached at the Funerall of Philip Harris, Esq. J. Quick. 1682.
- Sermon by J. Quick. 1682.
- Sermon—The Triumph of Faith—at the Funeral of Mrs. Rothwell. J. Quick. 1698.
- * Sermon (A) preached at St. Andrew's, Plymouth, Jan. 30th, 1698; with a Preface defending King Charles the Martyr. 2 b. Sam. xxi. c. 1 to 7 v. Canon Gilbert. 1699.

Sermons by Canon Gilbert. 1724.

Sermons on Various Subjects. W. Stephens. 1737.

Sermons on Different Subjects. Z. Mudge. 1739.

Sermon in Aid of the Devon and Exeter Hospital. Archdeacon Moore. 1770.

Sermon at the Opening of St. Aubyn Chapel, Plymouth Dock. E. B. Blackwell. 1771.

Reply to the above, by a Dissenting Minister.

Sermon preached in the Parish Church of St. Andrew, Plymouth, at the Visitation of the Right Rev. the Lord Bishop of the Diocese, on Saturday, Aug. 6th, 1785. R. Hawker. Plymouth. 1785.

Sermon on the Death of Dr. Toulmin. J. Kentish.

Sermon preached at Laying the Foundation-stone of St. George's Chapel, Stonehouse. J. Bidlake. 1787.

Sermon on the Slave Trade. J. Bidlake. 1788.

Sermon before the Society of Free and Accepted Masons, Sept. 28th, 1790, being the time appointed for the Interment of His Royal Highness the Duke of Cumberland. J. Bidlake. 1790.

Sermon at the Opening of the Chapel in George Street, Plymouth Dock [Unitarian]. J. Toulmin. 1792.

Sermon preached at Stonehouse, Plymouth. J. Bidlake. 1798.

Sermons on Various Subjects. J. Bidlake. 1795-99.

Ditto. Ditto. 1808.

Sermon preached in the Parish Church of Stoke Damerel, 22nd April, 1797, on the Laying the Foundation-stone of St. John's Chapel at Plymouth Dock. T. M. Hitchins. Hoxland, Plymouth Dock. 1797.

Sermon preached before the Gentlemen of the Plymouth Grammar School; with an Oration delivered in the Guildhall. J. Bidlake. 1803.

Sermon at the Visitation of the Ven. Ralph Barnes. J. Bidlake. 1803.

Sermon. J. Bidlake. 1805.

Some Thoughts on Christian Stoicism: an Antidote against the Evils of Life. Preached at Plymouth, Nov. 15th, 1818, in consequence of the Lamented Death of Sir Samuel Romilly. I. Worsley. 1818.

Sermon preached in St. Andrew Church, Plymouth, on an Anni-

versary of the Plymouth Public Dispensary, Sept. 18th, 1814.
R. Lampen. Plymouth. 1814.

Sermon preached in St. Andrew Church, Plymouth, Wednesday, 16th Feb., 1820, being the day of the Funeral of his late Most Gracious Majesty. Robert Lampen. Plymouth. 1820.

Sermon preached on Wednesday, Nov. 5th, 1828, in the Parish Church of St. Andrew. Geo. Ireland. Plymouth. 1828.

Sermon (A) preached at the Consecration of St. Paul's Chapel, Stonehouse, on Friday, 27th Sept., 1833. S. Rowe. Plymouth. 1833.

Sermon (A) preached at St. George's Chapel, East Stonehouse, on Sunday, June 21st, 1840, on the occasion of the Preservation of Her Majesty the Queen from a Traitorous Attempt upon her Life. H. A. Greaves. Stonehouse. 1840.

Sermon preached in St. Mary's, Truro, 1842, before the Governors of the Royal Cornwall Infirmary. C. M. Gibson. 1842.

Sermon preached for the Devonport and Plymouth Spiritual Destitution Relief Fund, by Henry, Lord Bishop of Exeter. 1849.

Sermon preached in St. Stephen's Church, Devonport; with a Preface on Christian Unity. E. F. Tracey.

Sermon on the Catastrophe at Santiago. F. W. Bourne. Plymouth. Stand Fast in the Faith. W. B. Flower. Plymouth. 1850.

St. Stephen's Vision. Preached at the Consecration of St. Stephen's, Devonport. J. Hayne. Plymouth. 1858.

Supremacy (The) of Christ over the Churches. A Discourse delivered at the Ordination of the Rev. C. Wilson, M.A., as Pastor of the Church assembling in Norley Street Chapel, on Wednesday, November 17th, 1858. John M. Charlton. 1858.

Sermon (A) preached at St. Andrew Church, Plymouth, on the 19th of May, 1859, at the Primary Visitation of Archdeacon Downall. Philip Carlyon. Lidstone, Plymouth. 1859.

Sermons preached in Charles Chapel, Plymouth. G. D. Doudney. Brendon, Plymouth. 1866.

Sermons and Letters. G. D. Doudney. Brendon, Plymouth. 1867.

Sermons by the Rev. C. H. Spurgeon, delivered in Plymouth [three]. Brendon and Luxmoore, Plymouth.

Sermon by the Rev. J. Huyshe, on the occasion of Laying the Memorial Stone of the Royal Albert Hospital. Hearle, Devonport. 1862.

Sermon preached by Dr. Temple, Bishop of Exeter, in St. Andrew

Church, at his first visit, January, 1870; and Speech on delivering the Prizes to the Students of the Science Classes on the previous evening. Brendon, Plymouth. 1870.

Ditto, with the Evening Sermon. Latimer, Plymouth. 1870.

Sermons preached at Union Chapel, Plymouth. C. B. Symes. Brendon and Son, Plymouth. 1872.

Translation of Darlby's Sermons on the Epistle to the Colossians. F. Soreton.

Two Sermons on National Sins preached in the Parish Church of St. Andrew, on Sunday, the 9th and 16th of January, 1831, on the occasion of the use of the Prayers appointed by the Lords of Her Majesty's Most Honourable Privy Council, in reference to the present times. J. Hatchard. Plymouth. 1831.

Twelve Sermons preached by F. Barnes, Trinity Church, Plymouth. Luke, Plymouth. 1860.

Tudor Supremacy (The) in Jurisdiction Unlimited. Preached at the Visitation of Archdeacon Downall at Kingsbridge. R. H. Fortescue. Lidstone, Plymouth. 1850.

Two Sermons preached in St. Andrew Church, Plymouth, by J. Erskine Risk: The Church's Inalienable Deposit; the Church's Prayer for the Magistracy; with some Remarks on the Bicentenary Celebration of St. Bartholomew, 1662. James and James, Plymouth. 1862.

Teaching of the Christian Altar (The). Morris J. Fuller. Birmingham, Plymouth. 1864.

"Upon this Rock will I Build my Church." G. T. Kingdon. Bowering, Plymouth. 1870.

Vœ Euge Tuba; or, The Wo-joy Trumpet: a Sermon preached before the House of Commons. G. Hughes. 1647.

Village Sermons. R. Hawker. 1825.

Voice from Henden (The). Preached in the Parish Church of Wimborne, St. Giles, Dorset, March 14th, 1847, the Sunday after the Interment of the beloved and only Daughter of the Rector. Hinton C. Smith. Plymouth. 1847.

Voices from the Dead. Occasioned by the Death of the Rev. William Rooker (late of Tavistock). Preached at Norley Chapel, Plymouth, on Sunday morning, April 18th, 1852, by Eliezer Jones; to which is appended a Sketch of Mr. Rooker's Life and Dying Experience. Plymouth. 1852.

Widow's Mite (The). Preached in St. Andrew, Jan. 14th, 1844;

to which is prefixed a Pastoral Letter to the Inhabitants of Plymouth. By Henry, Lord Bishop of Exeter. Nettleton, Plymouth. 1844.

Work we have to do (The). Farewell Sermon preached at Christ Church, Plymouth. W. B. Flower. Lidstone, Plymouth.

We have an Altar. G. R. Prynne. 1866.

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Sabbath and the Sanctuary. G. H. Shield. 1848.

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* Treatise (A) upon the Authenticity of Scripture. J. Bryant.

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Hints on Evangelical Preaching. By a Barrister.

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Evidence of Plenary Inspiration. A Letter to Mr. Thomas Porter, in reply to his Defence of Unitarianism. R. Hawker.

Unitarians' Serious Appeal (The) on the Divinity of Christ and His Atonement. By Thomas Prout, in reply to S. Drew. Plymouth. 1813.

Letters on the Person, Godhead, and Ministry of the Holy Ghost. R. Hawker. Plymouth. 1817.

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1830.

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1866.

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1856.

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1656.

* Way (The) of Happiness and Salvation: Rescued from vulgar Error. J. Glanvill. 1670.

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- View of Plymouth Dock, Plymouth, and the Adjacent Country. Plymouth Dock. 1812.
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 Davidson, J.; d. —. 288, 289.
 Dealtry, a Millenarian, who, with a companion named Burgess, founded a Congregation in Plymouth in 1847, and predicted the end of the world for a certain day in that year. It is hardly necessary to add that the prediction was not fulfilled, and that their sect died out. 282.
 Defoe, Daniel; b. 1663, d. 1731. 289.
 De la Beche, Sir Henry, F.R.S., F.G.S.; d. 1855. 289.
 Dening, Mrs. H., *née* Geraldine Hooper, a very popular female Evangelical preacher; b. Bath; d. ditto, 1872. 275, 280.
 Denman, B. W. 282.
 Digby, Sir John, one of the Commanders of the King's forces at the Siege of Plymouth. 211.
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 Dixon, Miss Sophie; b. Plymouth; d. 1855. Her sister Cora has also written poetry. 223, 226, 285.
 Dissenting Minister (A) 277.
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- Downall, Rev. John, M.A., Clergyman; Incumbent Okehampton, and Archdeacon of Totnes; b. 1803, d. 1872. 262, 268, 273, 275.
- Doudney, Rev. George David, Clergyman; Curate Charles Chapel, Plymouth, 1852-65; b. London, 1810; d. Plymouth, 1865. 259, 265, 278.
- Drake, Sir Francis; nephew of the circumnavigator. 204, 212.
- Drew, Samuel; b. 1765, d. 1833. 281, 289.
- Durston, Dr. W. 241.
- Dunning, Richard, Surgeon, Devonport; b. Aveton Gifford; a warm friend of Jenner's, and the author of the term Vaccination. 255.
- Duprez, J., Photographer; b. Barnstaple. 202.
- Dwelley, Architect, Plymouth. 239.
- Dyer, R., Actor, Plymouth. 208.
- E. A. See Archer, Edward.
- Eastlake, Sir Charles Lock, F.R.S., P.R.A.; b. Plymouth, 1793; d. Florence, 1866; A.R.A. 1827; President of the Royal Academy 1850; Director of the National Gallery 1855. The most prominent artist to whom Plymouth has given birth. 195, 196, 197, 198, 200, 201, 203, 204.
- Eastlake, Lady; wife of preceding. 196.
- Eastlake, William, Solicitor; b. Plymouth; nephew of Sir Charles. 204.
- Eastlake, Charles Lock; b. Plymouth; brother of preceding; Secretary to Institute of British Artists. 199.
- Eardley, Sir C. E.; d. 1863. 272.
- Ebrington, Viscount, now Earl Fortescue; M.P. for Plymouth 1841-52. 235, 238, 241.
- Edgcumbe, Edward. 204.
- Edmonds, Sir Thomas; b. Plymouth, 1563; d. 1639; Ambassador for James I. to Brussels and France. 209.
- Edmonds, Richard; formerly of Penzance, now of Plymouth. 209.
- Elrington, Right Rev. Thomas, Bishop of Leighton and Ferns. 246.
- Ellis, John William Carteret, Barrister; b. 1805, d. 1858. 237.
- Elliott, Rev. William, Minister of Protestant Evangelical Chapel, Compton Street, Plymouth. 262, 270.
- Elliott, S. 285.
- Elvins, John Warwick, Reporter; b. Plymouth. 214.
- Enty, Rev. John, Presbyterian; d. 1743. 274.
- Everest, Rev. William Frederick, B.A., Clergyman; b. Plymouth. 268.
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- Exeter, Bishop of, Frederick Temple, D.D. 278, 279.
- Farr, W., Dr. 252.
- Fitz-Geffrey, Rev. George, M.A., Puritan; b. Fowey, 1575; d. Kingsbridge, 1640. (?) 273.
- Flower, Rev. William Balmbro, B.A., Clergyman; sometime Curate Stoke Damerel. 226, 262, 268, 269, 278, 280, 282.
- Fletcher, Rev. John Rooke, D.D., Clergyman; Vicar of Quethiock since 1816. 275.
- Forward. 196, 198.

- Fortescue, Rev. Robert Henry, M.A., Clergyman, b. Plymouth; Rector of Stockleigh Pomeroy since 1854. 262, 263, 274, 279.
- Foulston, John, Architect, Plymouth; d. 1841. 201.
- Foot, Y. 204.
- Fontenelle. 242.
- Fowler, Benjamin Boyes, Solicitor, Plymouth. 227, 231.
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- Fox, John; b. Plymouth, 1693; d. 1763. 207.
- Fox, G. T., M.D. 246.
- Freckelton, Rev. T. W., Unitarian, Minister of Plymouth congregation. 273.
- Friend to St. Peter. 280.
- Friend to the Hottentots. 275.
- Francis, Philip, Mayor of Plymouth 1642-3. 209.
- Fry, Edward, formerly Print Dealer and Publisher, Plymouth. 196.
- Fuge, Samuel, Surgeon, Plymouth. 212.
- Fuller, Rev. Morris J., M.A., Clergyman; Rector of Lidford since 1867. 235, 276, 279.
- Fuller, Rev. Thomas, Historian and Divine; d. 1661. 290.
- Furneaux, James, of Swilley; b. Burdwan, Bengal. 216, 226.
- Furneaux, Rev. Henry, Clergyman; b. St. Germans. 206.
- Gauci, P. 198.
- Gandy. 200.
- Gandy, Edward; b. Plymouth, d. —; son of Rev. J. Gandy, Vicar St. Andrew 1769-1824. 223, 226, 227.
- Garland, Rev. T. W. 282
- Gardner, Rev. Richard, M.A., Incumbent St. Michael, Stoke, 1845-1870. 265, 276.
- Gastineau, E. T. 225.
- Gawler, Rev. C. D., Calvinist; sometime minister Mount Zion, Devonport. 266.
- Gemini. 221.
- Gibbons, Rev. Thomas, B.A., Clergyman; Rector St. Peter Tavy since 1855. 271.
- Gibbons, Anne, *née* Trelawney, wife of Rev. G. B. Gibbons. 226, 227.
- Gibson, Rev. Christopher Mends, B.A., Clergyman; b. Plymouth; Vicar St. Clement, Truro, since 1839. 269, 270, 274, 278.
- Gibbs, Silvanus, Clerk in Devonport Dockyard, Reviver of Devonport Unitarian Congregation, 1820, and 26 years its Minister; b. St. Ives, 1781; d. Devonport, 1857. 281.
- Gilbert, Rev. Canon, Clergyman; Vicar St. Andrew, Plymouth, 1680-1722. 261, 276, 277.
- Gilbert, C. S., Druggist; b. Plymouth Dock, d. London, 1831. 206, 289.
- Gilbert, Davies, LL.D., F.R.S.; b. 1767, d. 1839; F.R.S. 1827-30. 289.
- Gilbert, W. R. D., Insurance Manager; b. Devonport. 237.
- Gillham. 195, 198, 202, 203.
- Gilpin, Rev. William, M.A., Clergyman; b. 1724, d. 1804. 289.
- Glennie, J., Lieut., F.R.S. 237.
- Glanvill, Rev. Joseph, F.R.S., Clergyman; b. Plymouth, 1636; d. 1680; Rector

- of Bath, Chaplain to the King, Prebendary of Worcester; one of the earliest members of the Royal Society, a voluminous writer on Philosophical and Theological subjects; chiefly known by his treatises concerning Witches and Apparitions. 242, 253, 255, 264, 267, 268, 270, 273, 276, 282.
- Gladstone, Rev. J. E., Clergyman. 272.
- Gompertz, J. 223.
- Green, W. P. 242.
- Green, James. 217.
- Greaves, Rev. Henry Addington, M.A., Clergyman; Vicar of Charles, Plymouth, since 1846. 275, 278.
- Grills, James, Victualler, Plymouth; b. St. Dominick. 227.
- Grosse, Rev. Alexander, Puritan; d. 1654. 273.
- Grigg, William, Electrician, Plymouth. 245.
- Grylls, Rev. Henry, Clergyman; b. Helston, 1794. 283.
- G. S. 287.
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- Gwatkin, Mrs., niece to Sir Joshua Reynolds. 224.
- Hainsselin, Henry, Artist; b. Devonport. 196.
- Hakluyt, Richard, Cosmographist; b. 1553, d. 1616. 289.
- Halse, Sir Nicholas; b. Efford, d. 1637; Governor of Pendennis Castle. Grandfather of Hals, the Cornish Historian. 246.
- Hall, Com. Percy Francis, R.N. 263.
- Hall, J. Sparkes, Bootmaker; formerly of Plymouth. 212.
- Hamlyn, George, "The Dartmoor Bloomfield." 229.
- Harding. 198.
- Harington, Rev. Edward Charles, M.A., Clergyman; Chancellor of Exeter since 1847. 270.
- Harlow. 200.
- Harris, Sir William Snow, F.R.S.; b. Plymouth, 1791; d. 1867; wrote on Electricity and Allied subjects; gained Copley Medal, 1835; Bakerian Lecturer, 1839; Inventor of Lightning Conductors for Ships; received £5,000 from House of Commons for his Invention, and had a Government pension of £300. 215, 237, 244, 245, 248, 249, 252, 254, 258.
- Harris, Lieut. Christopher A. 207.
- Harris, Rev. J. L. 260.
- Harris, T. 212.
- Harris. 198.
- Harvey, George, Teacher of Mathematics, Plymouth; d. —. 213, 217.
- Harvey, G. W. 285.
- Hatchard, Rev. John, M.A., Clergyman; b. 1793; d. Plymouth, 1869; Vicar St. Andrew, 1824–69. 204, 260, 266, 275, 276, 279.
- Hawker, Rev. Robert, D.D., Clergyman; b. Exeter, 1753; d. Plymouth, 1827; Vicar of Charles from 1784 to 1827; the leader of the High Calvinistic party in the West of England, and a most voluminous writer on Theological topics. 207, 234, 237, 259, 261, 262, 263, 264, 265, 267, 268, 269, 270, 271, 273, 274, 275, 277, 279, 280, 281, 282, 287.
- Hawker, Rev. John, A.B., Clergyman; b. Plymouth, ; d. ditto, ; son

- of preceding; Curate Stoke Damerel; left the Church on the passing of Catholic Emancipation; Eldad Chapel—now St. Peter—Plymouth, was then erected for him. 266, 280.
- Hawker, Rev. Robert Stephen, M.A., Clergyman; b. Plymouth; Vicar of Morwenstow since 1834; has written a large number of papers in various periodicals in addition to works named. 223, 224, 225, 229, 231, 268, 269, 270, 271, 274.
- Hawkins, Sir Richard, famous Sea Captain, son of Admiral Sir John Hawkins; b. Plymouth; d. 1622; earned the honourable soubriquet of "the complete seaman." 208.
- Hawksley, Thomas, C.E. 239.
- Hay. 195, 196, 199, 200, 202.
- Hay, Com. John, R.N.; b. Devonport. 216.
- Haydon, Benjamin Robert, Printer and Bookseller, Plymouth. 206.
- Haydon, Benjamin Robert, Artist; son of preceding; b. Plymouth, 1786; d. London, 1846; the most unfortunate of Plymouth Artists; was sent to London in 1804 with £20 in his pocket; his works were historical and exceedingly large, and failing to meet with pecuniary success he committed suicide. 195, 196, 197, 199, 201, 203.
- Hayne, Rev. Richard James, M.A., Clergyman; Vicar Buckland Monachorum since 1855. 278.
- Haynes, William, Bandsman, R.N. 227.
- Hazlitt, William, Critic and Essayist; d. 1830. 204.
- Header, George, Bookseller; b. Plymouth, 1811; d. ditto, 1844. 211, 284.
- Header, Jonathan Nash, F.C.S., Ph. D., D. Sc., Electrician; elder brother of preceding; b. Plymouth; although blind for many years, has made very important researches in electricity, and invented several forms of electrical apparatus. 212, 213, 214, 215, 217, 241, 244, 245, 248, 249, 251, 255.
- Hennah, Rev. Richard, F.G.S., Clergyman; b. St. Austell, 1765; d. Plymouth, 1846; many years Chaplain of Plymouth Garrison; earliest local geologist. 250.
- Hennah, Rev. William Veale, B.A., Clergyman; b. Plymouth; son of preceding. 245.
- Hill, Sir Richard. 225.
- Hill, S. 265.
- H. S. H. [Henry Scrine Hill], Journalist; b. Exeter. 209.
- Hincks, Rev. Thomas, B.A., Unitarian; b. Exeter. 243.
- Hine, John, F.R.I.B.A., Plymouth; b. Ilminster; with Mr. Alfred Norman, Architect of the Plymouth Guildhall. 208, 286, 287.
- Hitchins and Drew. 289.
- Hitchins, Fortescue; b. St. Ives, 1784; d. 1814. 231.
- Hitchins, Rev. Thomas Martyn, M.A., Clergyman; Curate St. John, Devonport; b. St. Hilary, 1766; d. Devonport, 1830. 277.
- Hobhouse, Rev. Reginald, M.A., Clergyman; b. London; Vicar St. Ive since 1844. 273, 275.
- Hodge, H. C. 253.
- Hodge, Robert, C.E.; b. Cardross, Dumbartonshire; Corporation Surveyor, Plymouth. 239.
- Holman, Lieut., R.N. 228.

- Holmes, Rev. Peter, D.D., F.R.A.S., Clergyman; b. Bickleigh; educated at Plymouth Grammar School by Rev. J. H. C. Borwell, whom he succeeded in Head-mastership; Curate of Egg Buckland. Mr. Holmes's various works, chiefly translations and articles in Dr. Kitto's "Biblical Cyclopaedia" (third edition), make up ten or eleven octavo volumes. 231, 259, 264, 269, 281.
- Holmes, G. 200.
- Holmes, E. M. 243.
- Hollar. 201, 202.
- Hooker, *alias* Vowell, Chamberlain of Exeter; d. 1601. 289.
- Hore, H. 264.
- Horsley, Rev. J., Antiquary; Minister of Nonconformist Congregation, Morpeth. 287.
- Hore, Rev. William Strong, F.L.S., F.G.S., Clergyman; Vicar Shebbear since 1855; b. Stonehouse. 249, 251.
- Horton, Rev. Thomas, Baptist; Minister Morice Square and Hope Chapels, Devonport, 1821-1870. 227, 259.
- Howard, Nathaniel, Schoolmaster; b. Plymouth; d. —. 222, 225, 229, 245, 248, 255, 256, 258.
- Howe, Sir Edward, F.R.S., F.R.C.S.; b. Berwick, 1756; d. 1832. 252.
- Hughan, William James, Draper; b. Stonehouse. 219, 236, 290.
- Hughes, Rev. George, M.A., Puritan; b. 1603; d. Kingsbridge, 1667; leader of the Puritan party in Devonshire; Vicar of St. Andrew, Plymouth, 1644-1662; ejected in the latter year, and for a time imprisoned on Drake's Island. 258, 267, 270, 276, 279, 280.
- Hughes, W., Barrister; b. Maker, 1803; d. Plymouth, 1861. 216, 225.
- Hunt, William, Journalist; some time Librarian Plymouth Library. 206.
- Hunt, Rev. Edward George, M.A., Clergyman. 225.
- Hunt, Robert, F.R.S.; b. Devonport; five years secretary Royal Cornwall Polytechnic Society; appointed Keeper of the Mining Records, 1846; founder and honorary secretary Cornwall and Devon Miners Association. 217, 227, 228, 243, 244, 245, 246, 247, 248, 250, 251, 254, 256, 258.
- Hutchison, Rev. Æneas Barkly, B.D., Clergyman; b. London, 1819; d. Harrogate, 1866; Incumbent of St. James, Devonport, 1850-1866. 239, 285.
- Huxham, Samuel, M.D., eminent Physician; b. Staverton, 1694; d. Plymouth, 1768; practised many years in Plymouth; contributed largely to Phil. Trans., besides papers cited. 241, 245, 246, 249, 250, 255.
- Huxham, J. Cornelius, M.D., son of above. 250.
- Huyshe, Rev. J., M.A., Clergyman; Incumbent Clisthydon since 1831. 218.
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- Inglefield, Capt. E. A., R.N., F.R.S. 218.
- Innes, Henry, late cashier Devonport Dockyard. 265, 268.
- Ireland, Rev. George, sometime Lecturer St. Andrew, Plymouth. 278.
- Jackson, Rev. W. 271.
- Jackson, H. M. 226.
- Jacob, Rev. John, D.D., Clergyman; Incumbent St. Aubyn Chapel 1823 to 1839. 246, 266.

- Jacobson, Mrs., widow of William Jacobson, Solicitor, Plymouth; b. 1779, d. 1866. 195, 197, 201.
- Jay, Rev. William, Baptist, Bath. 272.
- Jehner. 200.
- Jemmat, Mrs. Catherine. 207.
- Jewitt, Llewellyn, F.S.A., sometime Librarian Plymouth and Cottonian Library. 196, 202, 216, 284.
- Johns, Mr. and Mrs. 228.
- Johns, Henry Incledon, Banker, Devonport. 229, 286.
- Johns, Rev. Charles Alexander, B.A., F.L.S., Clergyman; b. Devonport; son of preceding. 246, 252, 264.
- Johnston, J., Engraver. 197.
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- Jones, C., Devonport. 225.
- Jones, Rev. Eliezer, Independent, sometime Minister of Norley Street [Chapel. 279.
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- Jordan, Henry, Commissioner for the Government of Queensland. 238.
- Joseph, Henry, Mineralogist, Plymouth. 253.
- Jukes, Joseph Beete, M.A., F.R.S.; b. 1811, d. 1869. 251.
- Julian, Rev. R. A. 252.
- J. Q. See Quick, John.
- J. W. W. D. 266.
- Kempe, William, believed to have been a Schoolmaster in Plymouth. 236.
- Kenney, Commander, R.N. 264.
- Kennedy, B. 268.
- Kent, E. 266.
- Kentish, Rev. John, Unitarian, Minister of Unitarian Chapel, George Street, Devonport, 1791; now Lane and Davis's Spirit Vaults. 266, 277, 281.
- Kerr, Colonel, Governor of Plymouth, 1646. 211.
- Keys, Isaiah Waterloo Nicholson, Printer and Bookseller, Plymouth; b. Devonport. 243, 249.
- Killen, Margaret, one of the early Quakers. 282.
- King, Richard John; b. Plymouth. Has written likewise many articles, chiefly historical and antiquarian, in "Quarterly Review," "Fraser's Magazine," &c., including article on Devonshire in Quarterly, April, 1859. 205, 223, 230, 286.
- Kingdon, Rev. Samuel Nicholson, M.A., Clergyman, Vicar of Bridgrule; d. 1872. 240, 281.
- Kingdon, Rev. George Thomas, M.A., Clergyman, Incumbent of Ivybridge, 1862-72. 279.
- Kingston. See Jones, 288.
- Kitto, John, D.D., F.R.S.A., the deaf author; b. Plymouth, 1804; d. Cannstadt, 1854; brought up in the Workhouse until his talents became recognised; his first essays were published in the *Plymouth Herald*. 198, 201, 204, 208, 219, 224, 228, 229, 235, 249, 254, 262, 263, 268, 269, 280, 283, 285, 287.

- Knott, Rev. Henry, Unitarian, Minister of Plymouth Society; b. 1811, d. Plymouth, 1865. 266.
- Lambert. 199.
- Lampen, Rev. Robert, Clergyman, Lecturer St. Andrew, Plymouth; b. Plymouth; d. —. 223, 228, 235, 278, 280.
- Latimer, Isaac, Proprietor *Western Daily Mercury*, formerly *Plymouth Journal* 285.
- Laurence, P. S. 200.
- Laurie, Lieut. 285.
- Layman, A. 269.
- Layman, A. 280.
- Leach, William Elford, M.D., F.R.S.; b. Plymouth, 1790: d. Italy, 1836; the most notable Naturalist Plymouth has produced; sometime Curator British Museum; contributed several papers to first vol. Plym. Inst. Trans. 241, 243, 247, 250, 252, 258.
- Leamon, John, Master in the Merchant Service. 204.
- Le Geyt, Rev. C. J. 269.
- Leland, John, the Antiquary; d. 1552. 288.
- Lens, B. 197.
- Lewis, John Delaware, M.P. for Devonport since 1868. 237.
- Littleton, Nicholas, F.R.C.S., Saltash; b. Landrake. 258.
- Looker-on (A). 229.
- Lockyer, Miss Lisa, Plymouth. 223.
- Löhr, Frederick; b. Helston; Professor of Music, Plymouth; has published several minor pieces of music, one, "The Crystal Waltzes," dedicated to the Countess of Mount Edgumbe. 195.
- Lott, Y. 204.
- Lucas. 195.
- Luscombe, Henry A., Marine Artist; b. Plymouth. 202.
- Lynch, S. E., inmate of Plymouth Blind Institution. 227.
- Lysons, Rev. D. and S., brothers. 289.
- M. A., Lincoln College. 276.
- Mace. 196.
- MacCallum, David, Clothier, Plymouth. 214, 244.
- McDonnell, J. M. 269.
- McDougall, Rev. T. N. 263.
- Macky, J., Scotch physician. 289.
- McIntyre, M. 214.
- Mann, John Pidsley, Accountant. 240, 254.
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- Martin, Rev. T., Wesleyan Minister, Devonport. 230.
- Marston, C. H., M.D. 243.
- Markes, C. 205.
- Maskell, Rev. W., M.A. 275.
- Maton, William George, M.A., M.D., F.L.S., F.A.S.; d. —. 249, 289.
- Matthews, Capt. Alfred. 214.
- May, Nicholas, Surgeon, Plymouth. 255.

- May, Samuel. 252.
- May, Dr. W. 245, 246.
- Medley. 198.
- Member of the Athenæum. 238.
- Member of the University of Cambridge. See Rowe, S.
- Merrifield, John, F.R.A.S., PH.D., LL.D.; b. Tavistock; Teacher of Navigation. 250, 251.
- Metham, L. P. See Tripe. 240.
- Metherell, R., M.R.C.V.S. 287.
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- Midhope, Rev. Stephen, M.A., Puritan. 274.
- Mills, Miss. 230.
- Milton, T. 285.
- Mitchell, Philip, Artist, Plymouth. 195, 196, 197, 198, 199, 200, 201, 203.
- Mogg, William, Pawnbroker; b. Devonport. 242.
- Moore, Rev. Henry, Unitarian; b. Plymouth, 1732; d. Liskeard, 1802; son of minister Plymouth Unitarian Chapel. 228.
- Moore, Rev. George, M.A., Archdeacon of Exeter; b. Plymouth, (?) 1731; d. Heavitree, 1807; cousin Rev. H. Moore. 277.
- Moore, Edward, M.D.; b. Plymouth; d. Plymouth, 1858; one of the founders of the Royal Eye Infirmary. 242, 246, 251, 252, 253, 257.
- Moore, Charles Hewitt, Surgeon; nephew of preceding; b. Plymouth, 1821; d. 1870. 243, 244, 250, 252.
- Moore, J. 288.
- Morden. 288.
- Mortimer, Charles. 208.
- Mother of Miss Campbell. 272.
- Mount Edgecumbe, Earl of [2nd]; b. 1764, d. 1839. 200.
- Mount Edgecumbe, Earl of [3rd]; b. 1797, d. 1861. 205, 215, 236, 240.
- Moyle, Samuel, c.r. 213.
- Mudge, Rev. Zachary, D.D., Clergyman; b. Plymouth, 1694; d. ditto, 1769; educated at Exeter, and originally a Dissenting Minister at Bideford; Vicar of St. Andrew, 1731-69; Prebendary of Exeter; friend of Reynolds, Northcote, Johnson, and Burke. 264, 275, 277.
- Mudge, Thomas, Mechanician and Horologist, son of preceding; b. Exeter, 1715; d. 1794; distinguished himself by his labours for the perfecting of Chronometers. 257.
- Mudge, John, M.D.; b. Bideford, 1720; d. 1793; son of Zachary; apprenticed to Woolcombe, Surgeon, Plymouth Dock. 244, 245, 253, 254, 255.
- Mudge, Thomas, the younger, son of Thomas the elder. 257.
- Mudge, Major-General William, R.A., F.R.S., son of John Mudge; b. Plymouth, 1762; d. 1820. 241, 253, 257, 286.
- Mudge, Lieut.-Col. Zachary L. 215.
- Murch, Jerom, formerly Unitarian Minister at Bath, long retired from that profession. 258.
- Musgrave, Samuel, M.D., F.R.S.; b. Exeter; d. Plymouth, 1782; practised chiefly in Plymouth. 224, 229, 230, 241, 246, 247, 254, 255.

- Naval Officer (A). 284.
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 Needham, Rev. R. W., sometime Incumbent St. Paul, Stonehouse. 262.
 Nelson, Major-General R. J., R.E.; b. Devonport. 252.
 Newton, B. W., one of the early Plymouth Brethren. 260.
 Newth, Rev. Samuel, M.A., Independent; formerly Mathematical Tutor Western College. 250.
 Nicholson, Henry; b. Plymouth. 259.
 Norden, J.; b. 1548, d. 1626. 290.
 Northcote, James, R.A.; b. Plymouth, 1746; d. London, 1831; the first Artist of note produced by Plymouth; pupil and biographer of Reynolds; contributed several papers to the *Artist*. 197, 199, 200, 207, 209, 228.
 Odgers, Rev. W. J.; b. Flushing; Unitarian, formerly Minister of Plymouth Society, now of Bath. 220, 239, 259.
 Odgers, W. Blake, Temple; b. Plymouth; son of preceding. 225.
 Ogg, George, Salt Refiner, Plymouth. 215.
 Oliver, Rev. G., D.D., Roman Catholic Priest at Exeter; b. Newington, 1781; d. 1861. 288, 289.
 Oliver, Capt. S. P., R.N., F.R.G.S.; Member Plymouth Institution. 283, 286.
 One of the Diocese. 268.
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 Palmer, Sir Roundell, eminent Lawyer; M.P. for Plymouth, 1847-52; 1853-7; Attorney-General 1866. 223.
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 Parades, Count de, a French Spy. 207.
 Parker, George M. 215.
 Parfitt, E., M.E.S., Librarian Devon and Exeter Institution. 243.
 Parkyn, Elizabeth Lancaster. 265. [231.
 Parsons, Mrs., née Philip; b. Plymouth; d. —. 223, 224, 225, 226, 227,
 Pattison, Barbara, one of the early Quakers. 282.
 Paull, Miss M. A.; b. Tavistock; has chiefly resided in Plymouth; has also written a number of tales and sketches which have not been published independently, but have appeared in various magazines and papers. 224, 227, 230, 231.
 Pearse, Com. J. N., R.N. 216, 217.
 Pearse, J. 217.
 Pengelly, William, F.R.S., F.G.S.; b. Looe. 253.
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 Perry, G. B., Compositor. 284.
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 Phillips, J., F.R.S., F.G.S., &c. 288.
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 Playfair, J. 288.
 Pole, Sir William, of Shute; b. 1561, d. 1635. 288.

- Polwhele, Rev. Richard, M.A., Clergyman; Vicar of Manaccan; Historian of Cornwall and Devon; d. 1838, in his seventy-ninth year. 267, 288, 289.
- Porter, Rev. Thomas, Unitarian. 230, 266, 281.
- Poulain, Jules. 224.
- P. R. 274.
- Prance, Courtenay Connell, Solicitor; b. Plymouth. 206.
- Presbyter Anglicanus. 263.
- Priest of the Diocese of Exeter. 270.
- Prideaux, John, F.G.S., Chemist; b. Plymouth, 1787; d. ditto, 1859; was Professor of Chemistry in the Cornish Mining School. 208, 247, 250, 256.
- Pridham, William; b. Plymouth; d. ditto, 1870, aged 75; was some time editor and proprietor of *Plymouth Herald*. 209.
- Prince, Rev. John, M.A., Clergyman; Vicar of Berry Pomeroy; b. 1643, d. 1723. 290.
- Prout, Samuel, Artist; b. Plymouth, 1783; d. 1852. 198, 203.
- Prout, J. S. 206.
- Prout, Thomas. 281.
- Prynn, Rev. George Rundle, M.A., Clergyman; b. Fowey; Vicar of St. Peter, Plymouth, since 1848. 262, 264, 269, 272, 273, 274, 280.
- Purchas, Rev. Samuel, Clergyman; b. 1577, d. 1628. 289.
- Pusey, Rev. E. B., D.D. 263.
- Pyer, Kate [Mrs. Russell], daughter of the late Rev. John Pyer, Independent minister, of Mount Street and Wycliffe Chapels, Devonport. 208, 226, 230, 231.
- Quick, Rev. John, Nonconformist; b. Plymouth, 1636; d. 1706; was ejected from Brixton. 265, 270, 274, 276, 282.
- Radford, Isaiah Cann, Druggist; b. Devonport. 238.
- Rawlinson, Robert, C.E., Government Inspector under Public Health Act. 239.
- Reading, J. J., M.E.S. 243.
- Rector of Landulph. 286.
- Redding, Cyrus; b. Penryn, 1785; d. London, 1870; edited *Plymouth Chronicle*. 227, 288, 289.
- Rendel, J. Meadows, C.E., F.R.S.; b. Plymouth, 1802; d. 1856; was the engineer of numerous important works, including Holyhead and Portland Harbours; projected a suspension-bridge across the Tamar at Saltash forty years before Brunel. 215, 217, 218.
- Rennie, Sir John, C.E., F.R.S.; b. 1761; d. 1821. 213.
- Reuben. See Hawker, R. S.
- Reynolds, Sir Joshua, P.R.A.; b. Plympton, 1723; d. 1792. 200.
- Richards, T. 285.
- Risdon, Tristram; b. 1580, d. 1640. 290.
- Risk, Rev. John Erskine, M.A., Clergyman; Incumbent of St. Andrew Chapel, Plymouth, since 1867; b. Dublin. 211, 249, 267, 274, 275, 279.
- Robertson, Rev. P. 218.
- Rodd, Richard, Solicitor; b. Devonport. 237.
- Rogers, Richard Cogan, Barrister; b. Devonport; d. 1869; some time editor *Devonport Independent*, subsequently Chief Clerk Royal William Vicualling-yard. 271.

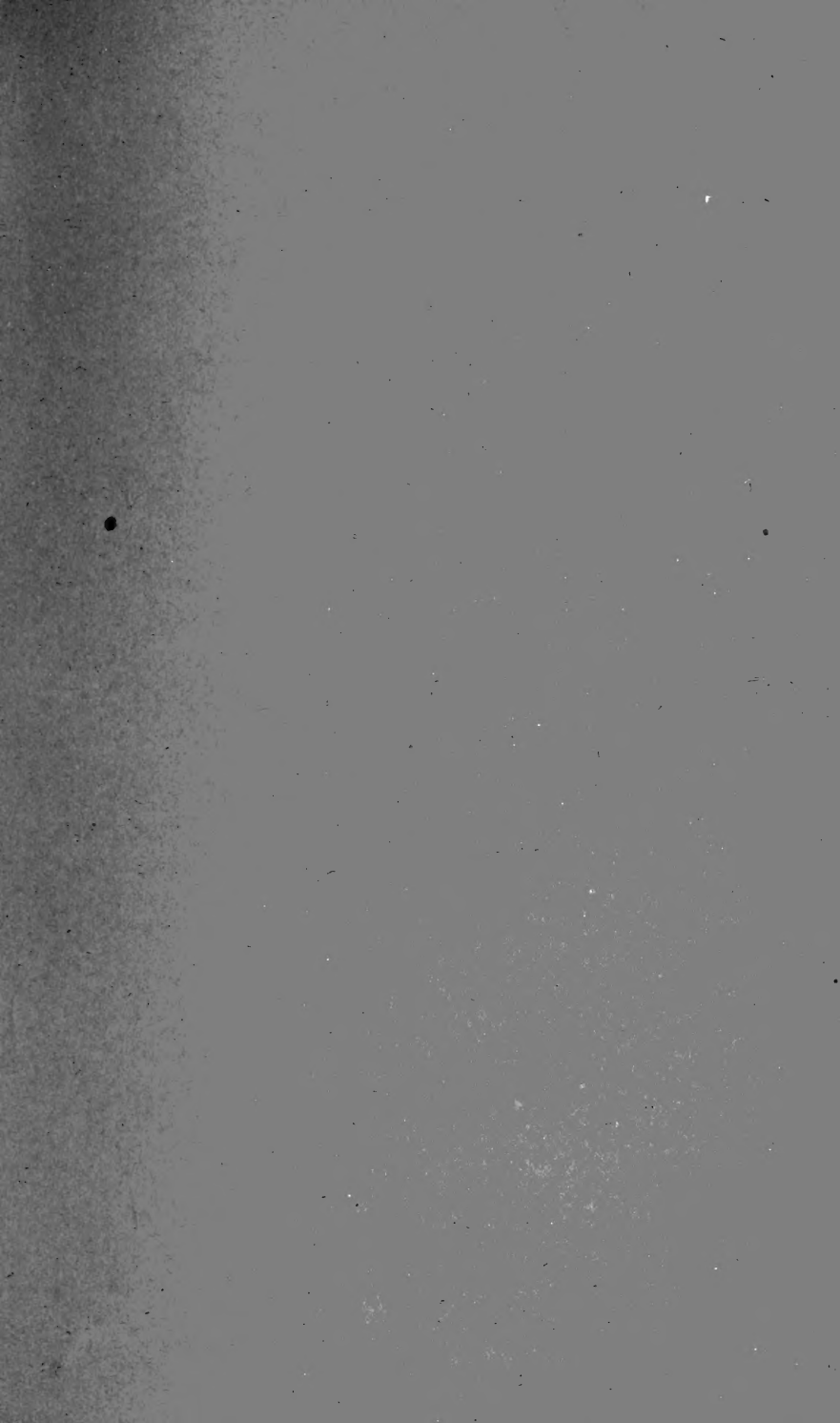
- Rooker, Alfred, Solicitor; b. Tavistock. 205, 208, 226.
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 Rowe, Rev. Samuel, M.A., Clergyman; b. Brixton, 1793; d. Crediton, 1835; set up business in Plymouth as stationer at the age of nineteen; subsequently went to college and became ordained; was Curate of St. Andrew, St. Budeaux; St. Paul, St. George, Stonehouse; died Vicar of Crediton. 213, 225, 236, 259, 264, 266, 278, 283.
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 Shield, Rev. G. H., M.A. (formerly Pedley); b. Devonport; Incumbent Holy Trinity, Exeter, since 1843. 280, 290.
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 Skardon, James; b. Plymouth. 247.
 Sleman, General Sir W. H. 222.
 Sleman, Richard. 237.
 Smeaton, John, C.E., F.R.S.; b. Aunthorpe, 1724; d. 1792. 214.
 Smith, Lieut.-Col. Hamilton, F.R.S., F.L.S.; b. Flanders, 1776; d. Plymouth, 1859; a man of vast and miscellaneous erudition, and of immense

- industry; after a distinguished career in the English army, he went on half-pay in 1820, and shortly afterwards settled in Plymouth. 195, 207, 240, 242, 250, 251, 254.
- Smith, R., jun. 202.
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- Soltan, George. 218.
- Soltan, W. F., M.B., brother of preceding; b. 1813; d. Plymouth, 1864. 246.
- Soltan, Henry William, brother of preceding; has written largely on theological topics. 260.
- Soreton, Rev. F., Puritan; b. Plymouth; ejected 1662. 279.
- Spigge, J. 287.
- Spencer, Nathaniel. 288.
- Spencer, Rev. W., Independent; sometime Minister of Princess Street Chapel, Devonport. 208, 263, 265, 272.
- Spry, Edward, Surgeon, Plymouth. 242.
- Spry, William Jacob; b. Devonport, 1810; d. ditto, 1868; in early life a lawyer's clerk; acquired a considerable knowledge of languages, particularly Eastern; and brought together a large and valuable library. 260.
- Spry, James; b. Devonport; brother of preceding. 237.
- Spry, W. J., Engineer, R.N.; b. Devonport; son of James. 214.
- Spry, J. R. H., Printer and Bookseller; b. Devonport, 1839; d. Devonport, 1872; son of James.
- Spurgeon, Rev. C. H., popular Baptist preacher. 278.
- Spurrell, Rev. J., Clergyman. 271, 272.
- Square, W. J., M.R.C.S., Plymouth. 244.
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- Stephens, Rev. William, Clergyman; Vicar St. Andrew 1722-1731. 277.
- Stevens, Robert White, Printer and Stationer; b. Plymouth, 1806; d. ditto, 1870. 218.
- Stevens, James. 214.
- Stevens, J. L. 224.
- Stock, Rev. John, LL.D., Baptist, Minister Morice Square Chapel, Devonport, 1857 to 1872. 236, 265, 282.
- Stockdale, R. 288.
- Street, Rev. John Chalice, M.A., Clergyman, Incumbent St. Andrew Chapel, Plymouth, 1845 to 1867. 273, 274.
- Strode, Richard. 233.
- Stuart, W., Superintendent Plymouth Breakwater. 213.
- Superior of the Society. See Sellon, Miss.
- Swain, William Paul, F.R.C.S., Devonport. 216.
- Symes, Rev. C. B., Independent, Minister Union Chapel, Plymouth, went to Australia in 1872. 279.
- Szyrma, Rev. William Somerville Lach, B.A., Clergyman, English Chaplain in Paris; b. Devonport; son of Col. Szyrma, Minister of Home Affairs

- in the Polish Revolutionary Government of 1832, who lived in Devonport many years, and died there. 225.
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- Taylor, Tom, well known Playwright and Author, Secretary Local Government Board. 207.
- Thelwall, Rev. Sidney, B.A., Clergyman, Curate of Charles Church, Plymouth, since 1867. 281.
- Thomas, Jenkin, Printer and Stationer, Plymouth. 214.
- Thomson, Mitchell, Staff-Surgeon, R.N. 269.
- Thornton, Samuel, Hydrographer. 285.
- Tincombe, Henry Dormer, Professor of Music. 196.
- Toms, J. 204.
- Tordriffe, T. P. P. 268.
- Toulmin, Rev. Joshua, D.D., Unitarian; b. 1742, d. 1815. 277.
- Towson, John Thomas, Watchmaker; b. Devonport; author of the Tables for Great Circle Sailing, now Scientific Examiner of Masters and Mates of Port of Liverpool. 216, 218.
- Tracey, Rev. Henry Eugene Flos, M.A., Clergyman; b. 1832, d. 1866; sometime Curate of St. Andrew, Plymouth. 276, 278.
- Trays, Henry. 224, 245.
- Tregelles, Samuel Prideaux, LL.D., one of the most distinguished of Modern Biblical Critics, holder of a Civil List Pension; long resident at Plymouth. 206, 208, 247, 259, 260, 262, 263, 264, 265, 266, 268, 269.
- Trelawny, Sir John Salusbury, of Trelawne, Baronet, M.P., head of the ancient family of that name. 230, 235, 238.
- Trelawny, Charles, of Coldrennick; Master of the noted Trelawny hounds. 230.
- Trelawny, Rev. Charles Trelawny Collins (formerly Trelawney Collins), M.A., Clergyman, Ham. 208, 259, 275.
- Trenhaile, J., Lawyer's Clerk, Devonport. 224, 228.
- Trevill, Richard, Merchant of Plymouth, *temp.* Elizabeth. 215.
- Triggs, Rev. Arthur, Calvinist, Plymouth; b. Modbury; d. —. 207, 270.
- Tripe, Lorenzo Pastor, F.R.C.S.; b. Devonport; assumed the name of Metham. 240.
- Trist, Major. 225.
- Truscott, Joshua R., Plumber, Devonport; d. 1849. 238.
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 Weekes, Samuel. A.R.A.M.; b. Plymouth. 195.
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 Weymouth, R. F., D. Lit., formerly Schoolmaster, Plymouth, now Head Master Mill Hill School, Middlesex. 224, 226.
 Whewell, W., D.D., Master of Trinity; b. 1794, d. 1866. 244, 249.
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 Whiteford, Sydney, Artist; b. Plymouth. 198.
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 Wightwick, George, Architect; long resident in Plymouth; d. 1872. 197, 198, 202, 203, 204, 225, 229, 284, 287.
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 Wilcocks, Joseph Blackmore, Solicitor; Government Emigration Agent, Plymouth. 236.
 Wilcocks, Rev. Thomas, Baptist; d. Devonport; Minister of Pembroke Street Chapel, Devonport. 206, 224, 227, 266, 282.
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 Wilkinson, Rev. J., Calvinist; some time minister South Street Chapel, Devonport; d. —. 266.
 Wilkinson, Rev. J. B., Clergyman.
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 Williams, T. H., Artist; b. Plymouth; d. —. 197, 199, 284, 286, 287.
 Willis, Browne, Antiquary; b. 1682, d. 1760. 289.
 Wills, William Henry; b. Plymouth. 230, 290.
 Wilson, Rev. Charles, M.A., Independent; Minister of Norley Street and Sherwill Chapel Congregation since 1858. 212, 274.
 Wilson, James, M.D. 240.
 Winterbotham, Rev. William, Baptist; Copastor of George Street Church, Plymouth; tried in 1793, at Exeter, for using seditious language in

- two sermons, one preached on the 5th Nov., in commemoration of the landing of William of Orange; sentenced to four years' imprisonment and £200 fine; grandfather of Mr. Winterbotham, M.P. for Stroud.
- Wivell, A. 200.
- W. M. 261.
- Wood, J. E., Engraver, Plymouth. 203.
- Wood, Rev. Joseph, Presbyterian, Minister of Plymouth Church. 276.
- Woodley, George. 222, 227, 228.
- Woolcombe, Surgeon, Plymouth Dock. 249.
- Woolcombe, William, M.D., Plymouth; d. 1822, aged 49; contributed largely to, and was one of the editors of, last editions of *Risdon* and *Prince*. 235.
- Woolcombe, Henry, F.S.A., Solicitor, Plymouth; b. 1778, d. 1847. The founder of the Plymouth Institution; indefatigable in all matters of literature and science connected with the town. 206, 211, 242, 256, 283.
- Woolcombe, Thomas, Solicitor, Devonport. 235.
- Worsley, Rev. Israel, Unitarian, Minister of Plymouth Society; b. 1768; d. Havre, 1836. 204, 208, 246, 254, 265, 273, 275, 277.
- Worsley, Henry, Artist; b. Plymouth; d. —; son of preceding. 195, 196, 197, 200, 201.
- Worth, Richard Nicholls, Journalist; b. Devonport. 206, 251, 284.
- Wotton, John, Plymouth, was the author of a large number of fugitive writings. 234, 267.
- Wotton, Hampden, Accountant; b. Plymouth; son of preceding. 222, 223, 229.
- Wright, W. H. K., Clerk, South Devon Railway. 284.
- Yonge, John, M.D., F.R.S.; b. Plymouth, d. 1721, aged 76; one of the earliest members of the Royal Society; contributed several papers on medical subjects to *Phil. Trans.* besides those cited. 205, 206, 218, 241, 242, 248, 250, 252, 258.
- Yonge, Rev. John, B.A., Clergyman, Rector of Newton Ferrers, 1813.
- Young, Rev. Samuel, Puritan, ejected; brother of preceding. 241, 266, 270.
- Young Gentleman. See Hitchins, Fortescue.
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